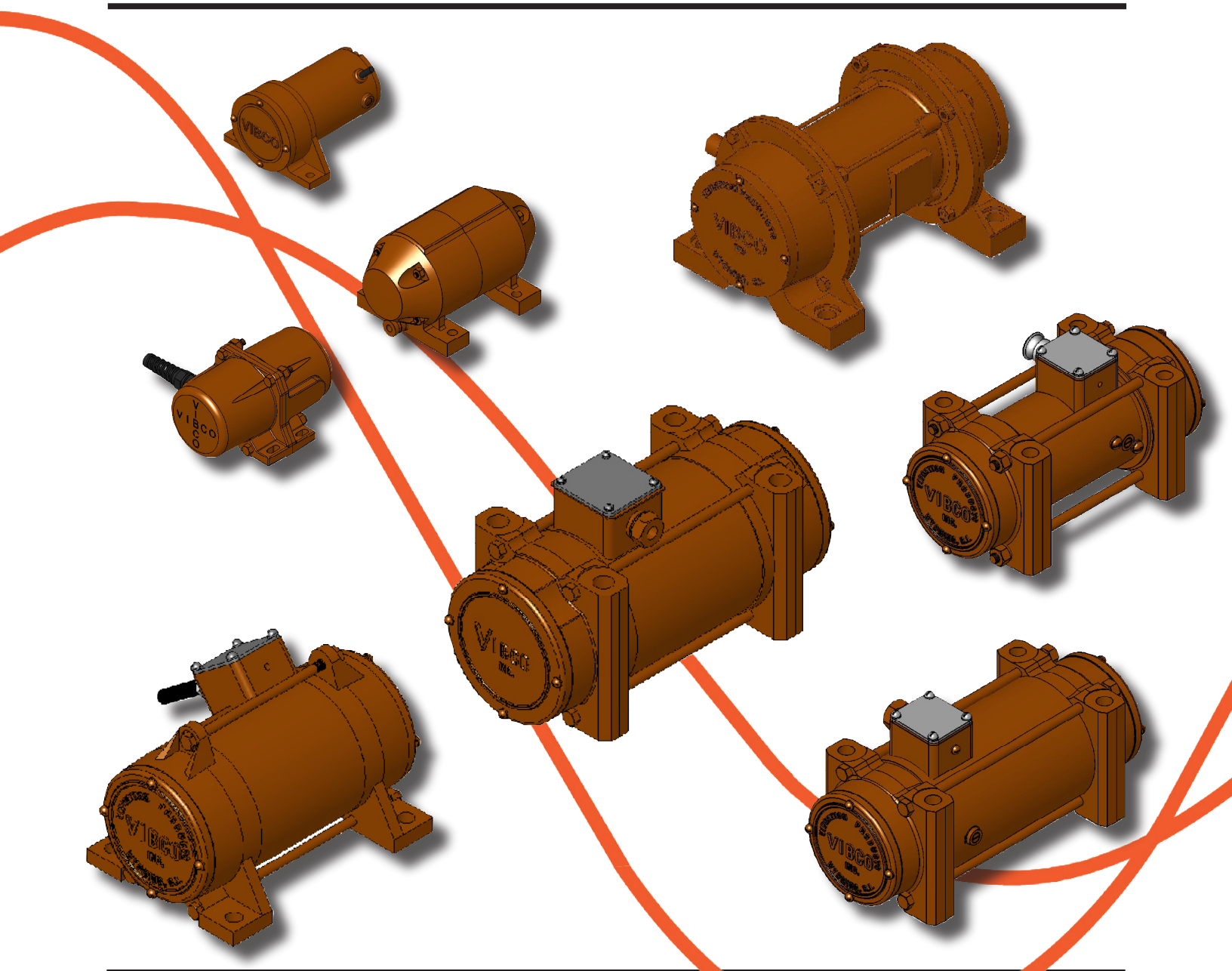
Electric Vibrators

SCR • US • SFC • FC • HEAVY DUTY • EXPLOSION PROOF

Mounting & Installation Instructions • Electrical Wiring Instructions
Operating Instructions • Troubleshooting •Technical Data • Parts List



VIBCO®
We're The SILENT A Vibrator Guys!™

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Thank you for choosing VIBCO Vibrators for your vibration needs. You are now the owner of the finest electric vibrator available today, backed by complete manufacturer confidence in its quality and dependability. For reference, please complete the information below about your new VIBCO vibrator.

Model Number: _____

Serial Number: _____

Date of Purchase: _____

WARNING: Failure to read and follow these installation instructions and safety precautions could result in personal injury, equipment damage, shortened service life or unsatisfactory equipment performance. All information in this document is vital to the proper installation and operation of the equipment. It is important that all personnel who will be coming in contact with this product thoroughly read and understand this manual.

TABLE OF CONTENTS

Warning Labels and Serial Number Tags xx

Safety Instructions & Model Definitions xx

Mounting Instructions Checklist xx

Mounting Instructions xxx

Vibrator Installation xxx

Electrical Installation xxx

Alternative Mounting Suggestions xxx

Changing Output Force xxx

How to Fix a Crack in Your Bin xxx

Troubleshooting xxx

Technical Data and Dimensions xx

Parts Lists & Breakdowns

- **SCR LINE:** MODEL 50, 60, 100, 200, 300, 400, (SCRW-400), 500, 1000 xx
- **US LINE:** MODEL 100, 450, 700, 900, 1600 xx
- **SFC/FC LINE:** MODEL SFC-100, 300; FC-100, 400 xx
- **HEAVY DUTY LINE:** MODEL 2P-75, 100, 150, 200, 450, 800, 1700, 2500, 3500, 4500, 5500 xx
- MODEL 4P-350, 600, 700, 1000, 1400, 2000, 3000, 5000, 10000 xx
- MODEL 6P-500, 1000, 1500, 2500, 5000 xx
- MODEL 8P-500, 750, 1250, 2500 xx
- **EXPLOSION PROOF LINE:** MODEL 2PX-200, 450; 4PX-350, 700, 2000, 5000 xx

Warranty & General Information xx

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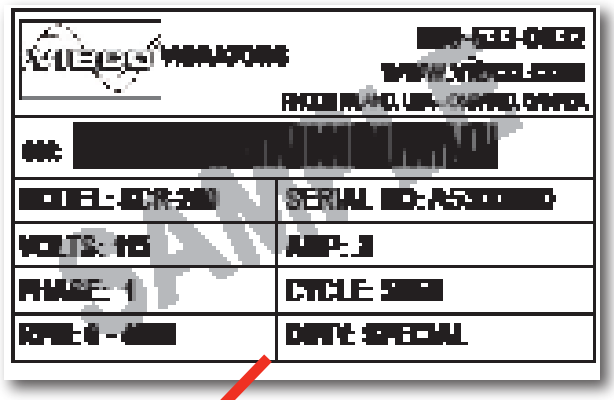
WARNING LABELS AND SERIAL NUMBER TAGS

SERIAL NO. & SPECS TAG

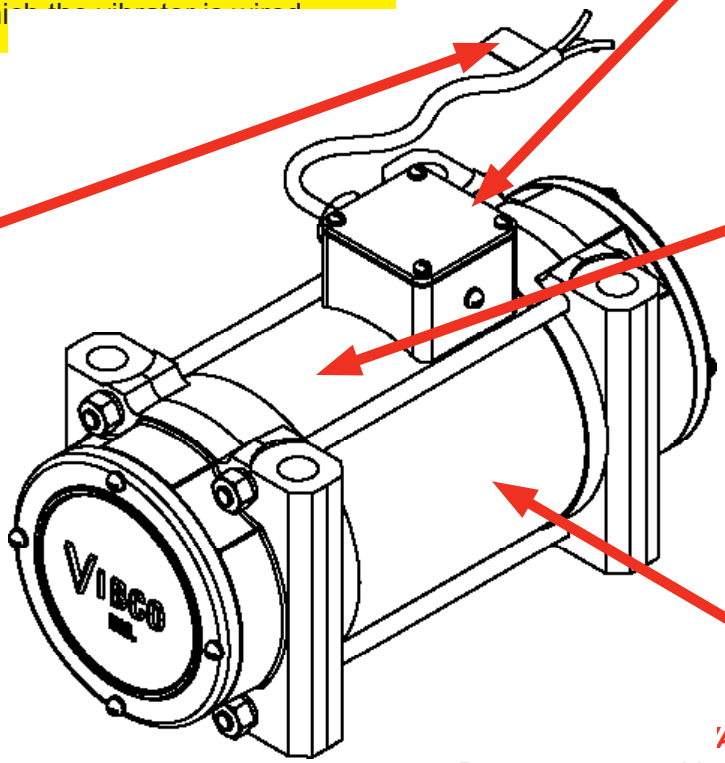
Please have the information on this label ready when ordering parts or contacting the technical service department at VIBCO.
Label Location: On body of vibrator.



NOTE: Always make sure that the vibrator **does not run above** the specified amperage for which the vibrator is wired.

GROUND CONNECTION WARNING LABEL

WARNING!
Make sure ground connections (green wires) are completed. Disconnect electric supply before working on unit.
Label Location: Wrapped around end of cord

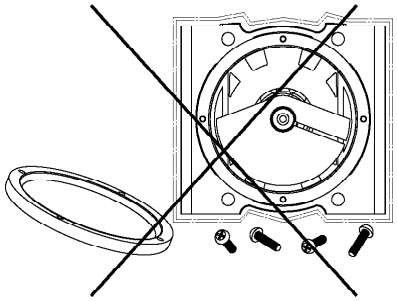


VOLTAGE LABEL

WARNING!
Be sure the voltage on the vibrator is correct for your power source.
Label Location: On body of vibrator.

COUNTERWEIGHT WARNING LABEL

'ARNING!
Do not operate with the cover removed. Whenever the cover is removed make sure that the power is turned off and cannot be turned on accidentally.
Label Location: On body of vibrator.

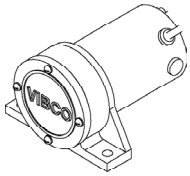


SAFETY INSTRUCTIONS

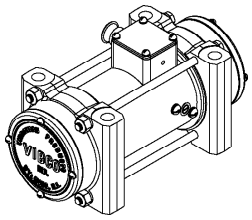
WARNING: Failure to read and follow these installation instructions and safety precautions could result in personal injury, equipment damage, shortened service life or unsatisfactory equipment performance. All information in this document is vital to the proper installation and operation of the equipment. It is important that all personnel who will be coming in contact with this product thoroughly read and understand this manual.

MODEL DEFINITIONS

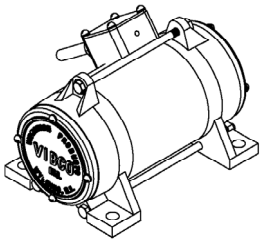
All VIBCO electric models offer the latest in vibration technology. They are also designed for long life to provide the maximum usage in any application. NOTE: Units are not watertight, only water resistant. Therefore applications exposed to harsh weather conditions must be covered by a dog house or some kind of protective covering.



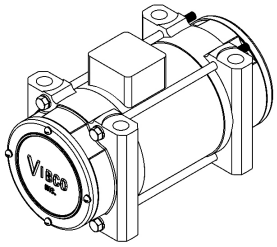
SCR LINE Adjustable speed and force. Can be adjusted while the vibrator is running. Easily adjusted eccentrics give additional force flexibility. No special wiring is needed. Totally enclosed for use in dusty or wet applications, inside or out.
TENV (Totally Enclosed Non-Ventilated) **Classified.**



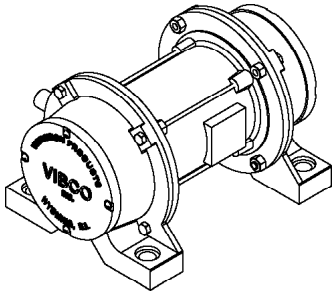
US LINE Plug in high speed power. Low amperage draw with single phase motors. Speed adjustable through rheostat or electronic speed controls. Totally enclosed and lightweight for use in field applications. Rated for intermittent duty cycle only.
TENV (Totally Enclosed Non-Ventilated) **Classified.**



SFC/FC LINE Built for high ambient heat applications or where heat is transferred through the bin skin. Outside fan cooled. Rated for continuous duty and can take any number of starts and stops. Ease of mounting and low amperage draw make these units popular for OEM applications. Available in single or 3 phase. 50/60 Hz available. SFC Models are **TENV** (Totally Enclosed Non-Ventilated) **Classified.** FC Models are **TEFC** (Totally Enclosed Fan Cooled) **Classified.**



HEAVY DUTY LINE Noiseless operation with maximum force and durability. Adjustable eccentrics. Available in single or 3 phase. Easily accessible terminal box for quick connection or voltage change. Oversized bearings and heavy duty electric motor for safety hight factor of watts per pound force. High heat resistant windings to take additional overload or heat. Totally enclosed and rated for continuous duty.
TENV (Totally Enclosed Non-Ventilated) **Classified.**

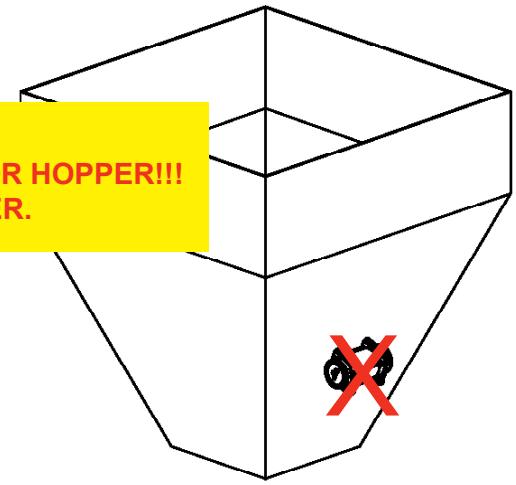


EXPLOSION PROOF LINE Rated for use in areas deemed hazardous by local authorities due to highly combustible materials -- i.e. with coal or grain dust, acetone fumes, etc. Built to UL specifications and UL approved. A variety of models available and rated for different classes and groups as indicated. Single and 3 phase available. Non-sparking components. Adjustable eccentrics. Class I and Class II models available.
MUST BE INSTALLED BY A QUALIFIED LICENSED ELECTRICIAN
TENV (Totally Enclosed Non-Ventilated) **Classified.**

MOUNTING INSTRUCTIONS CHECKLIST

Factory warranty is **VOID** if vibrator is not installed per these instructions.

DO NOT MOUNT VIBRATOR DIRECTLY TO SURFACE OF BIN OR HOPPER!!! IT WILL DAMAGE THE BIN/HOPPER.



- ☐ Determine vibrator placement on bin. (See **Vibrator Placement** on Page #)
- ☐ Determine length of channel iron and position on side of bin. (**Figure 1** on Page #)
- ☐ Determine style of mounting plate. (**Figure 3** on Page #)
- ☐ Select method of ***STITCH*** welding mounting plate to channel iron. (**Figure 4** on Page #).
- ☐ ***STITCH*** weld channel iron to bin. (See **Welding Instructions** on Page #)
- ☐ Attach vibrator to mounting plate. Check the mounting plate for warping. Secure firmly. **DO NOT OVER TIGHTEN THE BOLTS.** (See **Vibrator Installation** on Page #)
- ☐ Install safety chain or cable. (See **Safety Chain Installation** on Page #)
- ☐ Connect wiring for vibrator using the NEC Standards. (See **Figure 5** on Page #)
- ☐ Take a voltage reading at vibrator while running. **VOLTS** _____
- ☐ Take an amp reading while vibrator is running. **AMPS** _____
- ☐ Compare readings to standard values. Is the force the vibrator produces sufficient? Do you need more or less? See service instructions.
- ☐ ***FILL OUT WARRANTY CARD AND MAIL TO VIBCO!!!!***

If the these steps are followed, your vibrator will be installed properly and should give you years of trouble free service.

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MOUNTING INSTRUCTIONS

Vibrator Placement

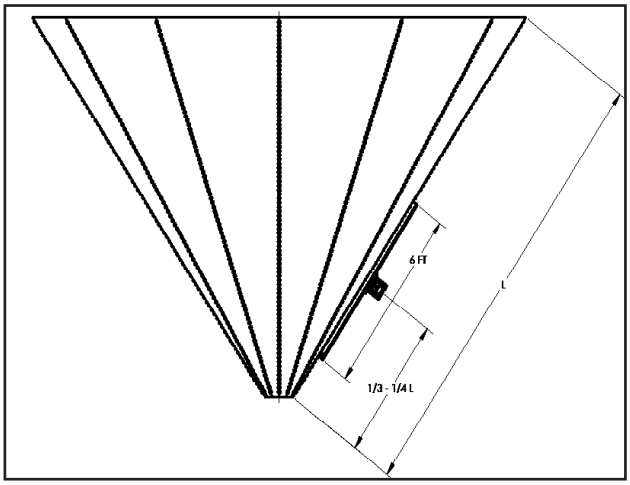
For coarse materials the vibrator should be mounted approximately 1/3 of the distance from the discharge opening to the top of the sloped portion of the bin. For fine materials place the vibrator 1/4 of the distance from the discharge to the top of the sloped portion of the bin.

PROPER PLACEMENT OF VIBRATOR IS ALWAYS LOCATED ON THE SLOPED PORTION OF THE BIN!

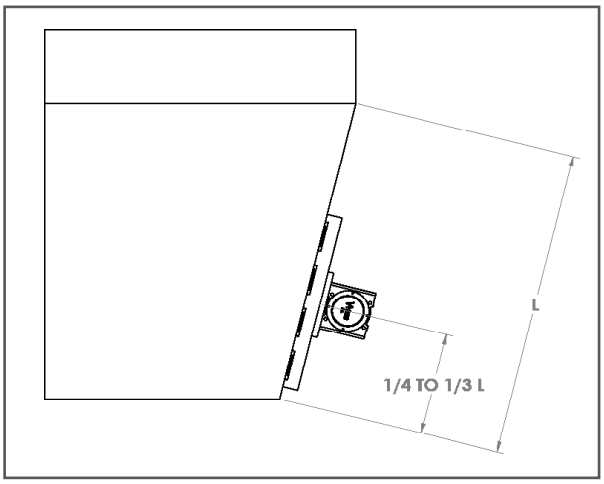
DO NOT MOUNT VIBRATOR DIRECTLY TO SURFACE OF BIN OR HOPPER!!! IT WILL DAMAGE THE BIN/HOPPER.

FOR EXPLOSION PROOF VIBRATORS MAKE SURE UL HAZARDOUS LOCATION MATCHES THE AREA'S CLASSIFICATION!

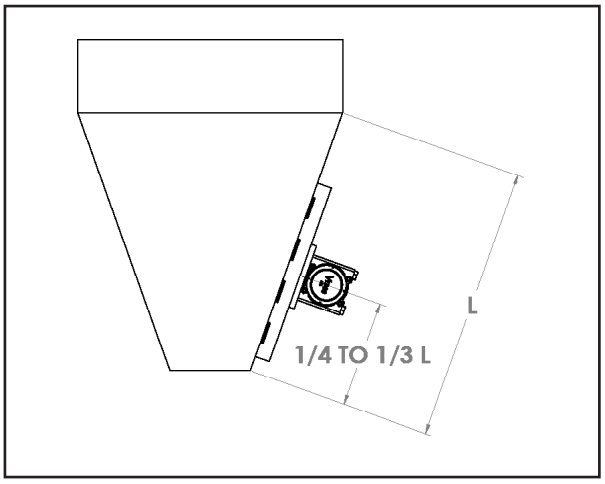
Conical Bin



1/2 Rectangular Bin

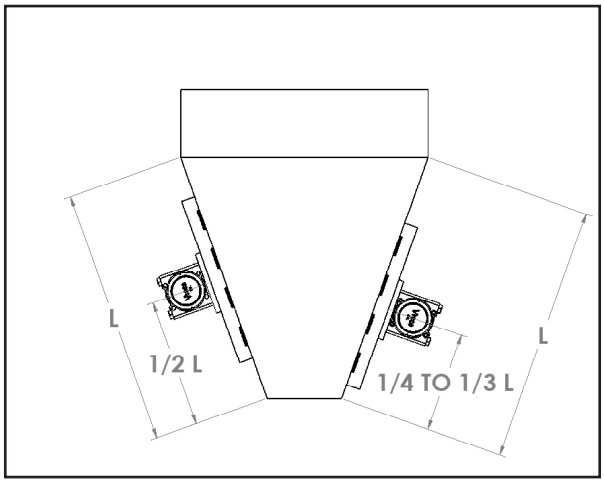


Rectangular Bin



Two Vibrators On A Single Bin

(Normally used to clean out bin or for larger bins)



NOTE: These are the most common vibrator mounts. For additional options, please refer to Page # or consult VIBCO for further assistance.

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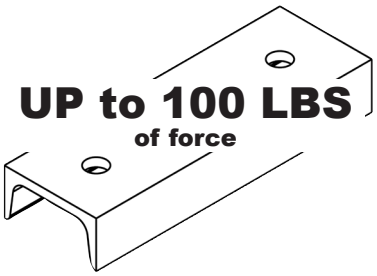
MOUNTING INSTRUCTIONS

DETERMINING WIDTH & LENGTH OF CHANNEL IRON

VIBCO Electric Vibrators are designed to use standard channel iron. The thickness of your bin walls determines the minimum width and length of channel iron needed in order to successfully mount your vibrator. To find out what width and length of channel iron is needed for your application, refer to the chart below.

Figure 1

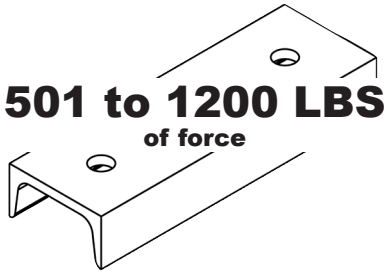


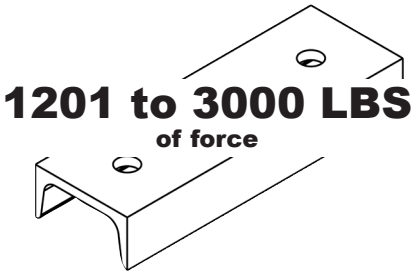
LBS. OF FORCE	MOUNTING PLATE THICKNESS	CHANNEL IRON SIZE	BIN WALL THICKNESS *	CHANNEL IRON LENGTH **
UP TO 100 lbs.	1/8 inch to 1/4 inch	2 inches x 1 inch x 1/8 inch	1/8 inch or less or 10 gauge or less	4 to 6 ft.
				calculate at 70 - 80% of bin wall height for shorter bins
			1/8 inch to 1/4 inch	3 to 5 ft.
				calculate at 60 -70% of bin wall height for shorter bins
			1/4 inch to 3/8 inch	1 to 2 ft.
				calculate at 50 - 60% of bin wall height for shorter bins
			3/8 inch to 1/2 inch	N/A
			1/2 inch & up	N/A
101 to 500 lbs.	1/4 inch to 3/8 inch	3 inches x 4.1 lbs or 3 inches by 5 lbs	1/8 inch or less or 10 gauge or less	5 to 7 ft.
				calculate at 80 - 90% of bin wall height for shorter bins
			1/8 inch to 1/4 inch	4 to 6 ft.
				calculate at 70 - 80% of bin wall height for shorter bins
			1/4 inch to 3/8 inch	3 to 5 ft.
				calculate at 60 - 70% of bin wall height for shorter bins
			3/8 inch to 1/2 inch	1 to 2 ft.
				calculate at 50 - 60% of bin wall height for shorter bins
			1/2 inch & up	N/A

* - IF BIN WALL IS LINED, WALL + LINER = THICKNESS LISTED
** - IF BIN WALL IS SHORTER THAN LENGTHS LISTED, CHANNEL IRON MUST BE MEASURED AS % OF BIN WALL AS INDICATED

MOUNTING INSTRUCTIONS

DETERMINING WIDTH & LENGTH OF CHANNEL IRON *continued*

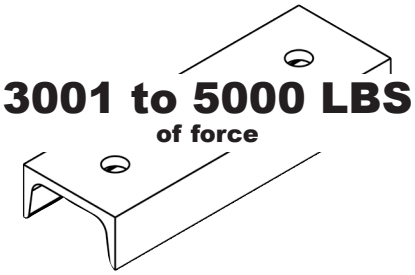


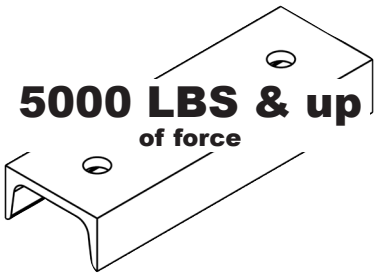


LBS. OF FORCE	MOUNTING PLATE THICKNESS	CHANNEL IRON SIZE	BIN WALL THICKNESS *	CHANNEL IRON LENGTH **
501 to 1200 lbs.	1/2 inch	4 in x 5.4 lbs or 4 in x 7.5 lbs	1/8 inch or less or 10 gauge or less	8 to 8 ft.
				calculate at 80 - 90% of bin wall height for shorter bins
			1/8 inch to 1/4 inch	5 to 7 ft.
				calculate at 70 - 80% of bin wall height for shorter bins
			1/4 inch to 3/8 inch	4 to 6 ft.
				calculate at 60 - 70% of bin wall height for shorter bins
			3/8 inch to 1/2 inch	3 to 5 ft.
				calculate at 50 - 60% of bin wall height for shorter bins
			1/2 inch & up	2 to 4 ft.
				calculate at 50 - 60% of bin wall height for shorter bins
1201 to 3000 lbs.	5/8 inch	6 in x 8.2 lbs or 6 in x 10.5 lbs	1/8 inch or less or 10 gauge or less	N/A
			1/8 inch to 1/4 inch	8 to 8 ft.
				calculate at 80 - 90% of bin wall height for shorter bins
			1/4 inch to 3/8 inch	5 to 7 ft.
				calculate at 70 - 80% of bin wall height for shorter bins
			3/8 inch to 1/2 inch	4 to 6 ft.
				calculate at 60 - 70% of bin wall height for shorter bins
			1/2 inch & up	3 to 5 ft.
				calculate at 50 - 60% of bin wall height for shorter bins

* - IF BIN WALL IS LINED, WALL + LINER = THICKNESS LISTED
** - IF BIN WALL IS SHORTER THAN LENGTHS LISTED, CHANNEL IRON MUST BE MEASURED AS % OF BIN WALL AS INDICATED

DETERMINING WIDTH & LENGTH OF CHANNEL IRON *continued*



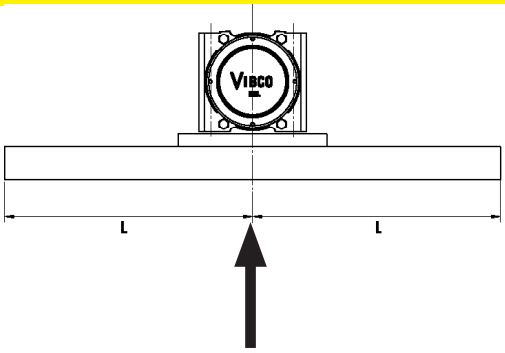


LBS. OF FORCE	MOUNTING PLATE THICKNESS	CHANNEL IRON SIZE	BIN WALL THICKNESS *	CHANNEL IRON LENGTH **
3001 to 5000 lbs.	3/4 to 1 inch	6 in x 8.2 lbs or 6 in x 10.5 lbs OR 8 in x 8.5 lbs or 8 in x 11.5 lbs	1/8 inch or less or 10 gauge or less	N/A
			1/8 inch to 1/4 inch	5 to 7 ft.
				calculate at 70 - 80% of bin wall height for shorter bins
			1/4 inch to 3/8 inch	4 to 6 ft.
				calculate at 60 - 70% of bin wall height for shorter bins
			3/8 inch to 1/2 inch	3 to 5 ft.
				calculate at 50 - 60% of bin wall height for shorter bins
			1/2 inch & up	2 to 3 ft.
				calculate at 50 - 60% of bin wall height for shorter bins
5001 lbs and up	1 inch	8 in x 8.5 lbs or 8 in x 11.5 lbs	1/8 inch or less or 10 gauge or less	N/A
			1/8 inch to 1/4 inch	6 to 8 ft.
				calculate at 80 - 90% of bin wall height for shorter bins
			1/4 inch to 3/8 inch	5 to 7 ft.
				calculate at 70 - 80% of bin wall height for shorter bins
			3/8 inch to 1/2 inch	4 to 6 ft.
				calculate at 60 - 70% of bin wall height for shorter bins
			1/2 inch & up	3 to 5 ft.
				calculate at 50 - 60% of bin wall height for shorter bins

* - IF BIN WALL IS LINED, WALL + LINER = THICKNESS LISTED
** - IF BIN WALL IS SHORTER THAN LENGTHS LISTED, CHANNEL IRON MUST BE MEASURED AS % OF BIN WALL AS INDICATED

DETERMINING WIDTH & LENGTH OF CHANNEL IRON *continued*

NOTE: Longer channel iron will not affect the vibrator performance, but total channel iron length should not exceed the length of the bin wall.

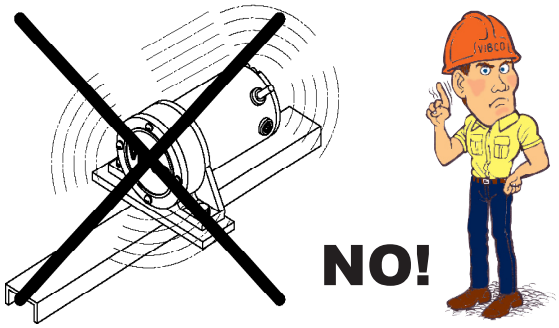


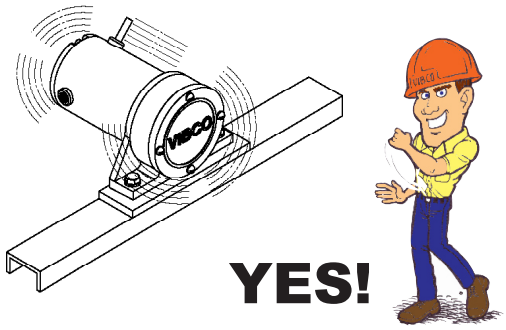
CENTERED ON CHANNEL IRON

MOUNTING CHANNEL IRON TO BIN

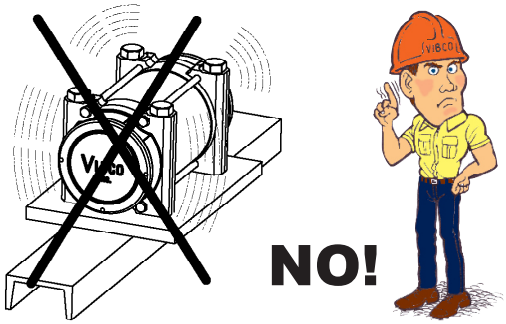
Never place the vibrator directly onto the skin of the bin. It should be mounted to a mounting plate and a piece of channel iron that has been **stitch welded** to the bin. This will help to stiffen the structure to be vibrated as well as spread the vibration over a larger surface, increasing the overall efficiency and diminishing the possibilities of fatigue cracks in the bin. The channel iron should extend 6 to 12 in. from the top and bottom of the sloped section of the bin and must be at least 6 in. longer than the vibrator mounting foot. Refer to the chart in Figure 1 for proper channel iron length. The vibrator should also be centered on the channel iron (see picture above) when properly mounted.

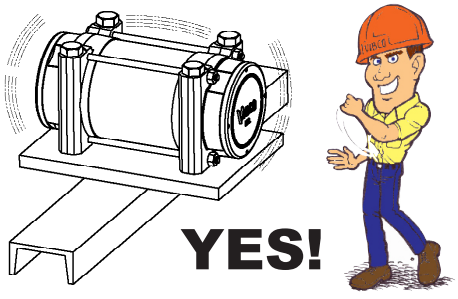
FOR TWO (2) BOLT MODELS, VIBRATOR MUST BE PARALLEL TO CHANNEL IRON, NOT PERPENDICULAR, FOR PROPER SUPPORT OF THE VIBRATOR TO AVOID FLEXING & BURN OUT.





FOR FOUR (4) BOLT MODELS, VIBRATOR MUST BE PERPENDICULAR TO CHANNEL IRON, NOT PARRALLEL, FOR PROPER SUPPORT OF THE VIBRATOR TO AVOID FLEXING & BURN OUT.



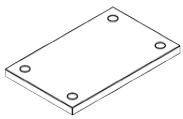


MOUNTING INSTRUCTIONS

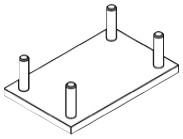
DETERMINING PROPER MOUNTING PLATE

VIBCO offers mounting plates for all Electric Vibrators. Additionally, you can order your channel iron pre-welded to the plate. Choose what you need from the table below. Mounting bolts are included free.

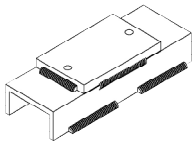
VIBRATOR MODEL(s)	Create a VIBCO MOUNTING PLATE KIT							SAFETY CABLE
	MOUNTING PLATE ALONE	with 2" W CHANNEL IRON	with 3" W CHANNEL IRON	with 4"W CHANNEL IRON	with 6"W CHANNEL IRON	with 8"W CHANNEL IRON	CHANNEL IRON LENGTH	
SCR-50	SPM-1	-2X					CUSTOMER SPECIFIED	SC-1
SCR-60	DCM-1/CEM-1	-2X					CUSTOMER SPECIFIED	SC-1
SCR-100, US-100	SPM-2	-2X	-3X				CUSTOMER SPECIFIED	SC-1
SCR-200,US-450T	UM-2		-3X				CUSTOMER SPECIFIED	SC-1
SCR-500	SCRM-2		-3X	-4X			CUSTOMER SPECIFIED	SC-2
SCR-1000	SCRM-1			-4X			CUSTOMER SPECIFIED	SC-2
SFC	SFCM		-3X				CUSTOMER SPECIFIED	SC-2
FC	FCM-1		-3X				CUSTOMER SPECIFIED	SC-2
US-700,SCR-350	UM-7		-3X				CUSTOMER SPECIFIED	SC-1
US-900	UM-3		-3X				CUSTOMER SPECIFIED	SC-2
US-1600	UM-4		-3X				CUSTOMER SPECIFIED	SC-2
2P-75	VMM-11		-3X				CUSTOMER SPECIFIED	SC-1
2P-100	VMM-111		-3X				CUSTOMER SPECIFIED	SC-1
2P-150	VMM-12		-3X				CUSTOMER SPECIFIED	SC-1
2P-200, 4P-350	VMM-2		-3X				CUSTOMER SPECIFIED	SC-2
2P-450-3	VMM-3			-4X			CUSTOMER SPECIFIED	SC-2
2P-450-1, 4P-700, 4P-1000	VMM-4			-4X			CUSTOMER SPECIFIED	SC-2
6P-300, 6P-500	VMM-4			-4X			CUSTOMER SPECIFIED	SC-2
2P-800-3	VMM-5			-4X	-6X		CUSTOMER SPECIFIED	SC-4
2P-800-1	VMM-61			-4X	-6X		CUSTOMER SPECIFIED	SC-4
2P-1700, 4P-1400, 4P-2000	VMM-6				-6X		CUSTOMER SPECIFIED	SC-4
6P-1000, 8P-500	VMM-6				-6X		CUSTOMER SPECIFIED	SC-4
2P-2500/3500/4500	VMM-7				-6X		CUSTOMER SPECIFIED	SC-4
4P-3000, 4P-5000, 2P-5500	VMM-8				-6X	-8X	CUSTOMER SPECIFIED	SC-4
6P-1500, 6P-2500, 8P-750, 8P-1250	VMM-8				-6X	-8X	CUSTOMER SPECIFIED	SC-4
4P-10000, 6P-5000, 8P-2500	VMM-13					-8X	CUSTOMER SPECIFIED	SC-4
2PX-200, 4PX-350	VMX-1		-3X				CUSTOMER SPECIFIED	SC-4
2PX-450, 4PX-700	VMX-2			-4X			CUSTOMER SPECIFIED	SC-4
4PX-2000	VMX-3				-6X		CUSTOMER SPECIFIED	SC-4
4PX-5000	VMX-4					-8X	CUSTOMER SPECIFIED	SC-4

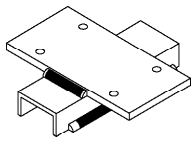


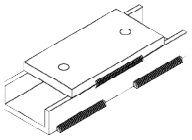
Thru Hole
or
Studded

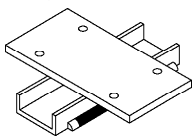


NOTE:
Mounting plates come with thru-holes standard. For studded mounting plates, simply add **-ST** to the part number when ordering.









MOUNTING INSTRUCTIONS

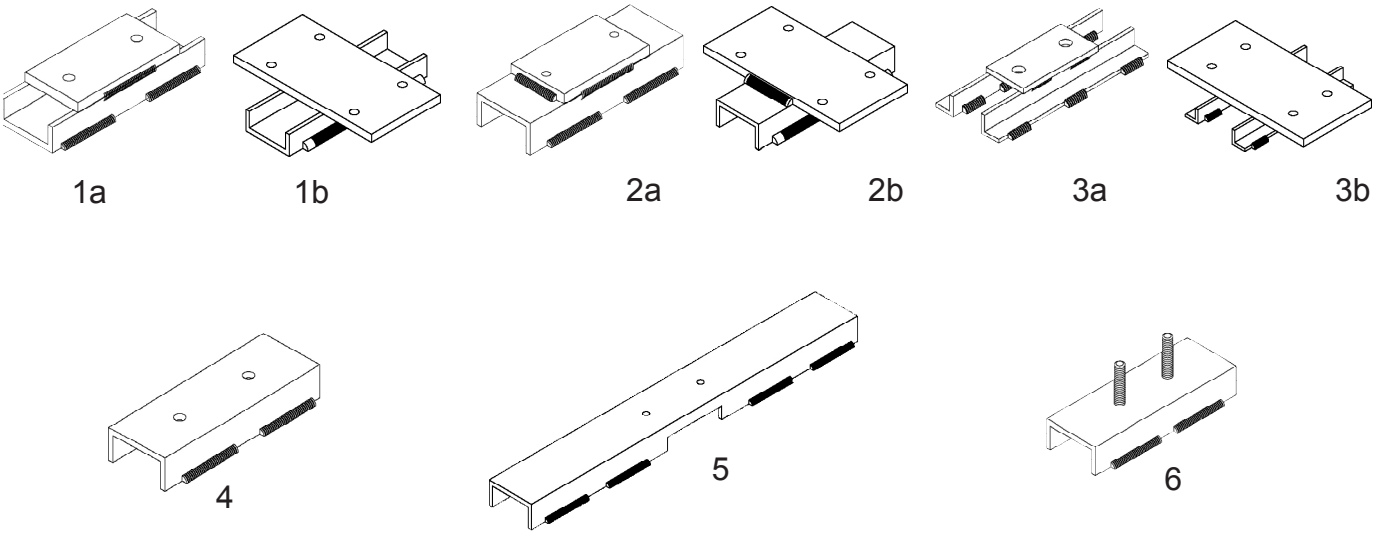
Stitch Welding the Mounting Plate to the Channel Iron

Always start and stop welds 1 inch from ends to prevent heat concentration. In accordance with the appropriate picture below, weld 2 to 3 inches, skip 1 to 2 inches and repeat until securely welded. Use a straight edge to determine if mounting plate is still flat or if it warped at all during the welding process. If it did warp, be sure to shim vibrator feet as part of mounting process (see Page ##)

NOTE: length & spacing of welds described here is different than that for mounting the channel iron to the bin.

⚠ **WHEN WELDING TO THE LEGS OF THE CHANNEL IRON, BE SURE TO STITCH WELD TO CHANNEL IRON UNDERNEATH PLATE ALSO!**

Figure 4



Different Suggestions for Combinations of Mounting Plate & Channel Iron

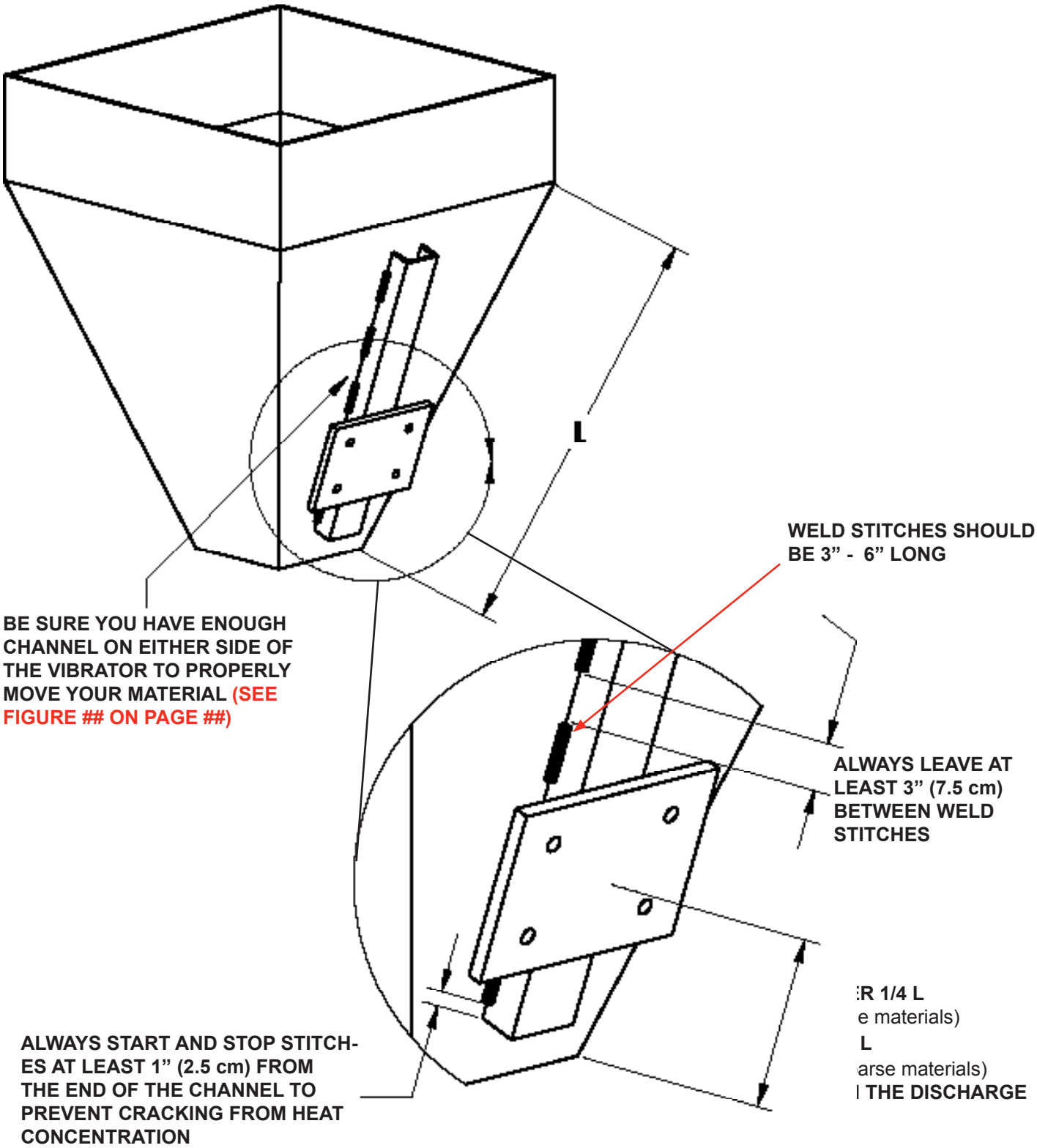
1a & b) Mounting plate welded to legs of channel iron (models used).
2a & b) Mounting plate on face of channel iron & holes drilled or tapped thru (models used)
3a & b) Mounting plate welded to two angle iron stiffeners instead of channel iron (models used).
4) Channel iron with holes drilled thru & nuts welded on back, or just holes drilled thru (models used)
5) Notch the channel for access to mounting bolts (models used)
6) Weld studs to back of channel (models used).

NOTE: for a list of alternate mounting brackets, see pages 35 & 36 of the VIBCO General Catalog.

MOUNTING INSTRUCTIONS

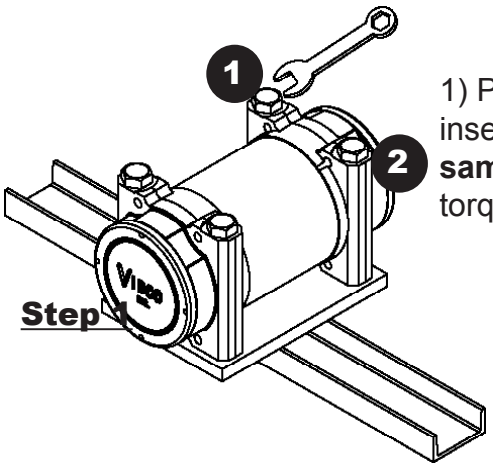
Stitch Welding Channel Iron to Bin

DO NOT MOUNT VIBRATOR DIRECTLY TO SURFACE OF BIN OR HOPPER!!! IT WILL DAMAGE THE BIN/HOPPER


L
WELD STITCHES SHOULD BE 3" - 6" LONG
BE SURE YOU HAVE ENOUGH CHANNEL ON EITHER SIDE OF THE VIBRATOR TO PROPERLY MOVE YOUR MATERIAL (SEE FIGURE ## ON PAGE ##)
ALWAYS LEAVE AT LEAST 3" (7.5 cm) BETWEEN WELD STITCHES
:R 1/4 L
e materials)
L
arse materials)
I THE DISCHARGE
ALWAYS START AND STOP STITCHES AT LEAST 1" (2.5 cm) FROM THE END OF THE CHANNEL TO PREVENT CRACKING FROM HEAT CONCENTRATION

VIBRATOR INSTALLATION

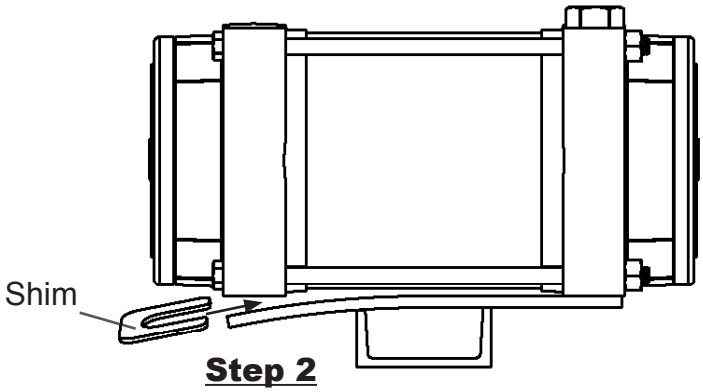
Now put the VIBCO vibrator in place. Make sure that it is secured tightly. Retighten the bolts after the first 10 to 15 minutes of operation and check them periodically to maintain proper tightness. Damage to both the bin and the vibrator can occur if the vibrator is not mounted securely.
NOTE: no matter how thick the mounting plate, it can still warp during welding, especially if VIBCO's instructions are not followed.



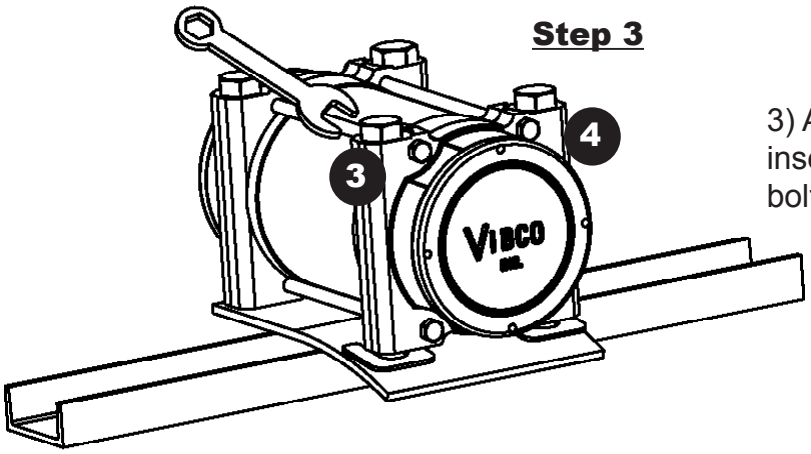
1) Place vibrator on mounting plate, then insert and tighten **2 Grade 5 bolts on the same end of the vibrator**. See proper torque values listed to the right.

GRADE 5 BOLT SIZE	MAX TORQUE ft-lbs
1/4"	13
5/16"	25
3/8"	48
1/2"	115
5/8"	145
3/4"	255
1"	375
1-1/4"	750

2) After tightening the first TWO Grade 5 bolts, look at the feet on the other end of the vibrator. If a gap exists between the mounting plate and feet of the vibrator, welding may have warped the mounting plate. You will need to shim the space under the feet.



DO NOT MOUNT VIBRATOR DIRECTLY TO SURFACE OF BIN OR HOPPER !!!
IT WILL DAMAGE THE BIN/HOPPER.



3) After gap has been filled with shim(s), insert and tighten the other TWO Grade 5 bolts.

SAFETY CHAIN or WIRE ROPE INSTALLATION

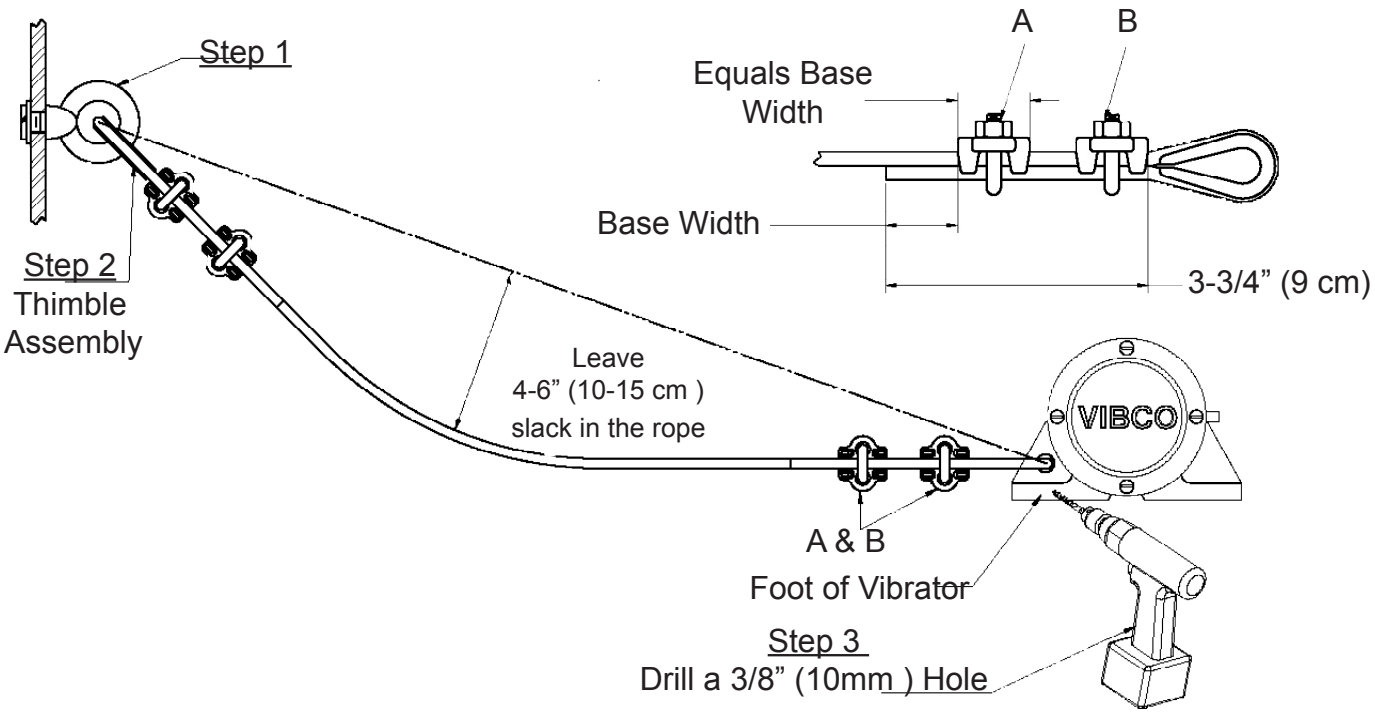
SAFETY CHAIN/WIRE ROPE IS NEEDED IF FALLING VIBRATOR CAN CAUSE BODILY HARM OR COSTLY DAMAGE

MODELS SCR-100; US-100; SFC/FC-all models; 2PX-200, 450; 4PX-350, 700

1) After properly mounting your vibrator, determine a suitable location to anchor it to, then install an eyebolt as shown below.

2) Place thimbles around eyebolts, then loop the wire rope (1/8” dia.) around the thimble. Next place the two rope clips around the wire rope as shown in the figure below. First applying Clip A as shown, then applying Clip B as close as possible to the thimble.

3) If hole for safety cable does not already exist, use a 3/8” drill to make a hole in the housing as shown below. Next place the thimble through the hole you drilled and loop the wire rope around the thimble. Secure the wire rope as shown in the figure below. First applying Clip A as shown, then applying Clip B as close as possible to the thimble.



ATTACH SAFETY CABLE TO A STABLE STRUCTURE, NOT TO THE BIN WALL!

NOTE: Safety wire kit can be purchased from VIBCO. See chart on Page XX for proper size.

SAFETY CHAIN or WIRE ROPE INSTALLATION

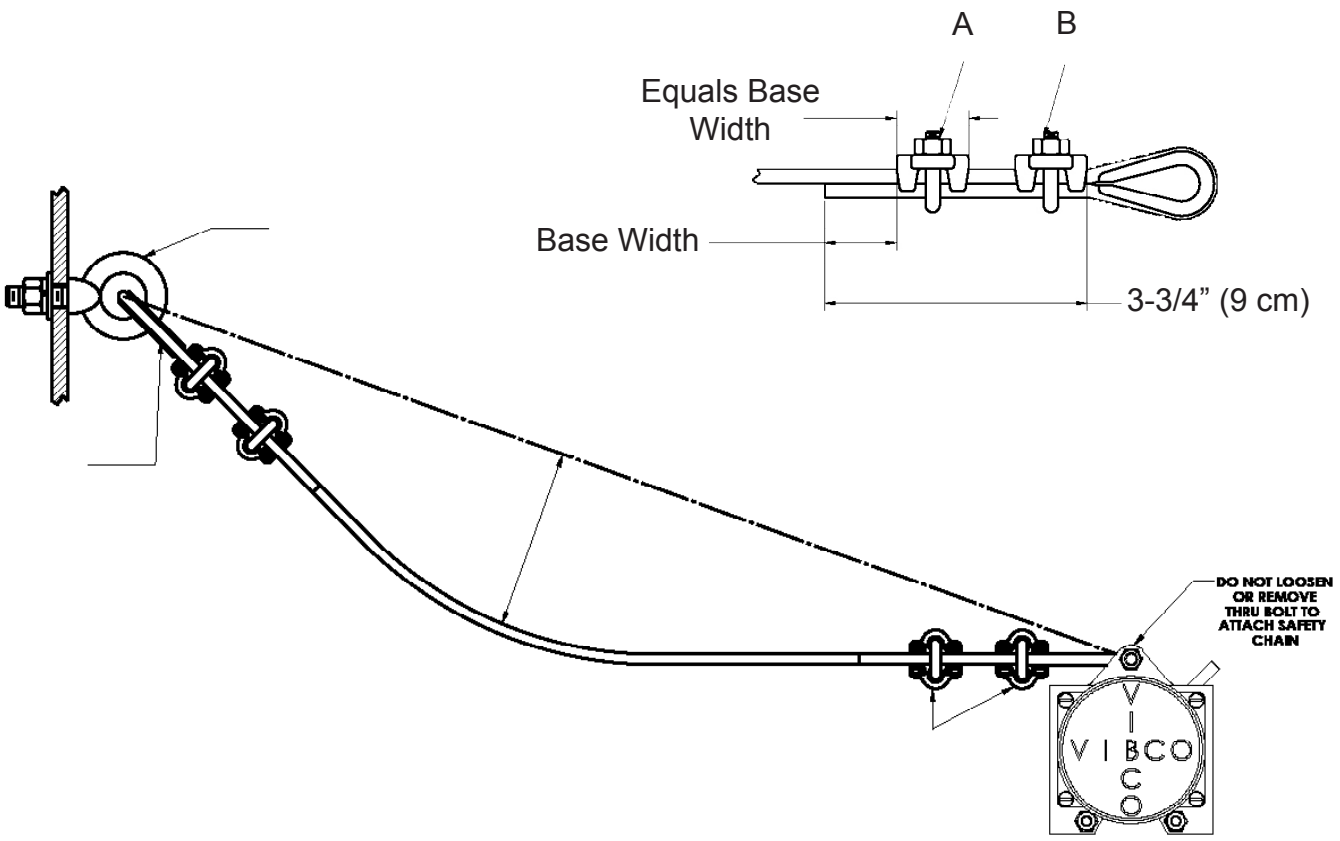
SAFETY CHAIN/WIRE ROPE IS NEEDED IF FALLING VIBRATOR CAN CAUSE BODILY HARM OR COSTLY DAMAGE

MODELS SCR-300, 400; US-900, 1600; 2P-75, 100, 150

1) After properly mounting your vibrator, determine a suitable location to anchor it to, then install an eyebolt as shown below.

2) Place thimbles around eyebolts, then loop the wire rope (1/8” dia.) around the thimble. Next place the two rope clips around the wire rope as shown in the figure below. First applying Clip A as shown, then applying Clip B as close as possible to the thimble.

3) Place the thimble through the hole you drilled and loop the wire rope around the thimble. Secure the wire rope as shown in the figure below. First applying Clip A as shown, then applying Clip B as close as possible to the thimble.



ATTACH SAFETY CABLE TO A STABLE STRUCTURE, NOT TO THE BIN WALL!

NOTE: Safety wire kit can be purchased from VIBCO. See chart on Page XX for proper size.

SAFETY CHAIN or WIRE ROPE INSTALLATION

SAFETY CHAIN/WIRE ROPE IS NEEDED IF FALLING VIBRATOR CAN CAUSE BODILY HARM OR COSTLY DAMAGE

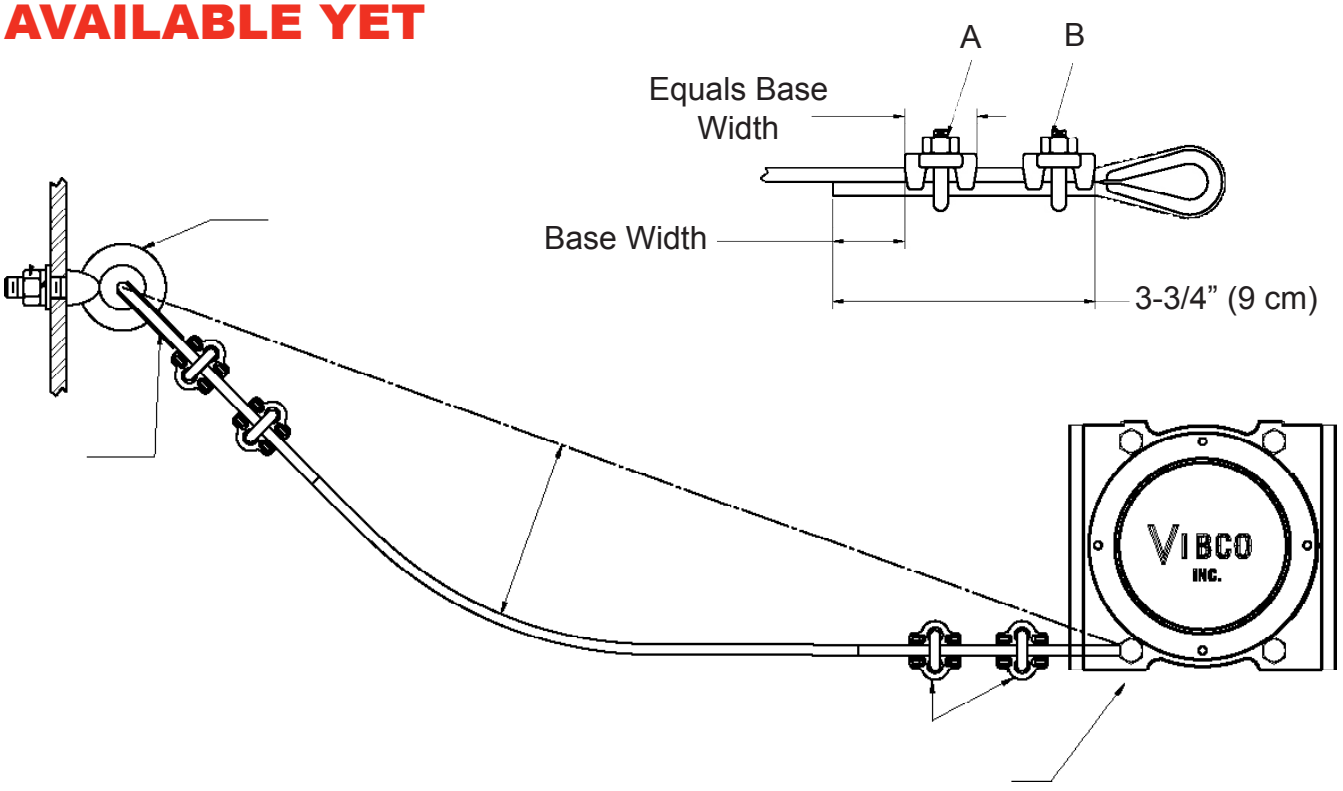
MODELS SCR-500, 1000; 2P-200, 450; 4P-700, 1000; 6P-300, 500

1) After properly mounting your vibrator, determine a suitable location to anchor it to, then install an eyebolt as shown below.

2) Place thimbles around eyebolts, then loop the wire rope (1/8" dia.) around the thimble. Next place the two rope clips around the wire rope as shown in the figure below. First applying Clip A as shown, then applying Clip B as close as possible to the thimble.

3) Place the thimble through the hole you drilled and loop the wire rope around the thimble. Secure the wire rope as shown in the figure below. First applying Clip A as shown, then applying Clip B as close as possible to the thimble.

THIS GROUP STILL IN PROCESS . . . NO EYE BOLT OR HOLE OR PLACE TO DRILL HOLE AVAILABLE YET



ATTACH SAFETY CABLE TO A STABLE STRUCTURE, NOT TO THE BIN WALL!

NOTE: Safety wire kit can be purchased from VIBCO. See chart on Page XX for proper size.

SAFETY CHAIN or WIRE ROPE INSTALLATION

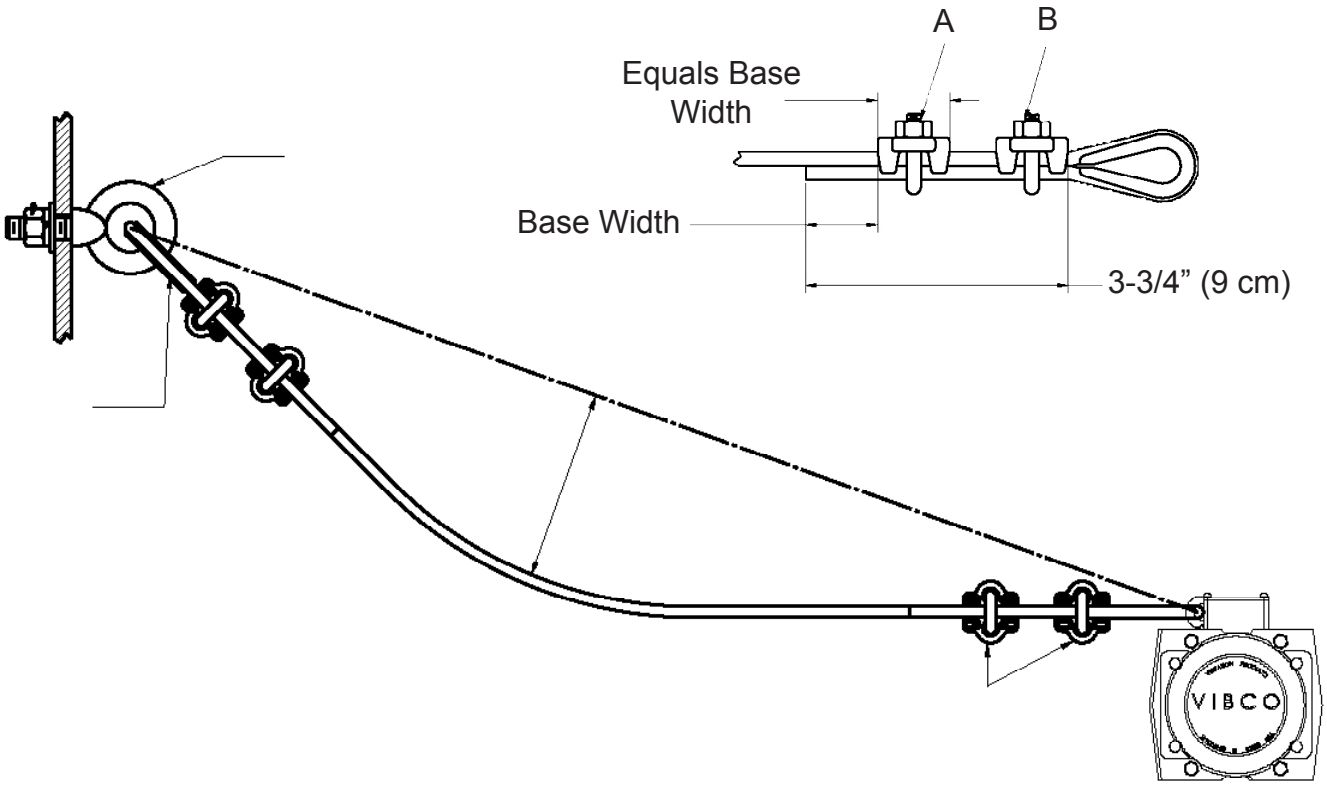
SAFETY CHAIN/WIRE ROPE IS NEEDED IF FALLING VIBRATOR CAN CAUSE BODILY HARM OR COSTLY DAMAGE

MODELS 2P-800, 1700, 2500, 3500, 4500, 5500
4P-1400, 2000, 3000, 5000, 10000; 6P-1000, 1500, 2500, 5000; 8P-ALL

1) After properly mounting your vibrator, determine a suitable location to anchor it to, then install an eyebolt as shown below.

2) Place thimbles around eyebolts, then loop the wire rope (1/8” dia.) around the thimble. Next place the two rope clips around the wire rope as shown in the figure below. First applying Clip A as shown, then applying Clip B as close as possible to the thimble.

3) Place the thimble through the hole you drilled and loop the wire rope around the thimble. Secure the wire rope as shown in the figure below. First applying Clip A as shown, then applying Clip B as close as possible to the thimble.



ATTACH SAFETY CABLE TO A STABLE STRUCTURE, NOT TO THE BIN WALL!

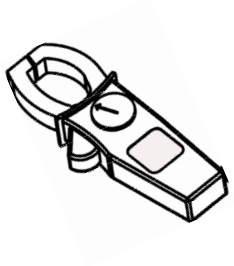
NOTE: Safety wire kit can be purchased from VIBCO. See chart on Page XX for proper size.

ELECTRICAL INSTALLATION AND WIRING SPECIFICATIONS

MAXIMUM AMPERAGE

The operating amperage of the vibrator should not exceed the value listed in the tables below. If the vibrator runs above this amperage, it is most likely due to faulty installation. Check your mounting welds, and re-tighten bolts if necessary.

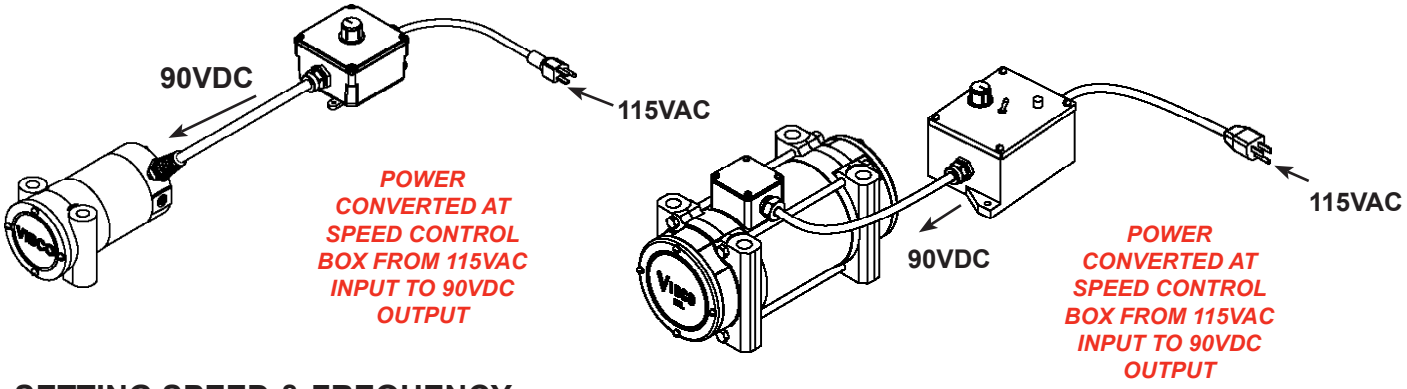
Please refer to TROUBLESHOOTING on Page XX for additional details.



SCR LINE

All SCR Models come equipped with a DC variable speed control and are single phase and 50/60 Hz. 115V units can simply be plugged into a grounded circuit. 230V units are shipped with speed control box but not a plug. You must hard wire the unit or connect your own plug per your circuitry.

WARNING: The motor in all SCR units is DC. It is designed to be used WITH the speed control box. DO NOT connect directly to AC power!


90VDC
115VAC
POWER CONVERTED AT SPEED CONTROL BOX FROM 115VAC INPUT TO 90VDC OUTPUT
90VDC
115VAC
POWER CONVERTED AT SPEED CONTROL BOX FROM 115VAC INPUT TO 90VDC OUTPUT

SETTING SPEED & FREQUENCY

All SCR models are adjustable from 0 - 4000 VPM using speed control box supplied with vibrator. Numbers on dial are the approx. percentage of full frequency.

EXAMPLE: setting of 70 = approx. 70% of 4000 VPM or 2800 VPM.

Model	Force (Impact) Adjustable lbs.	N	Amp.	* Volt	Ph.	Vibrations per Minute (VPM) Cont. Duty	Int. Duty	Weight lbs.	kg.	dB***
SCR-50	50	223	1.3	115/230	1	950-2500	2500-4000	8	4	71
SCR-60 ++	60	267	1.3	115/230	1	950-2500	2500-4000	5 & 8 **	2/4	68
SCR-100	100	445	1.3	115/230	1	950-2500	2500-4000	11	5	68
SCR-200	200	890	2.6	115/230	1	950-2500	2500-4000	12	6	70
SCR-300	300	1335	1.7	115/230	1	950-2500	2500-4000	16	7	70
SCR-350	350	1558	2.6	115/230	1	950-2500	2500-4000	20	9	71
SCRW-400 ++	400	1780	1.7	115/230	1	950-2500	2500-4000	12	6	70
SCR-400	400	1780	1.7	115/230	1	950-2500	2500-4000	16	7	70
SCR-500	500	2225	3.5	115/230	1	950-2500	2500-4000	43	20	70
SCR-1000	1000	4449	6.5	115/230	1	950-2500	2500-4000	58	26	72

* 50 or 60Hz ** 5 lbs aluminum; 8 lbs cast iron *** decibel at 3 ft (1 meter on A-Scale) ++ Waterlight N - Centrifugal force in Newton

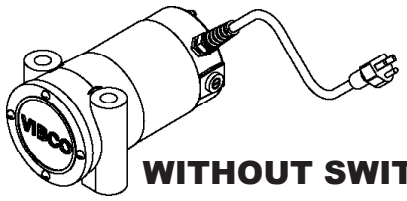
TAKE AN AMPERAGE READING WHILE THE VIBRATOR IS RUNNING

ELECTRICAL INSTALLATION AND WIRING SPECIFICATIONS

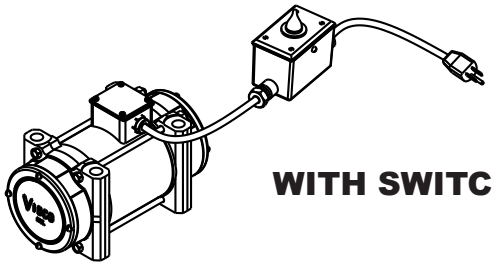
US Line

All US Models are single phase and 50/60 Hz. 115V units can simply be plugged into a grounded circuit. **NOTE:** 230V units are shipped without a plug. You must hardwire the unit or connect your own plug per your circuitry.

US MODELS ARE RATED FOR INTERMITTENT DUTY ONLY
Use 50% duty cycle where maximum run time = 30 minutes in any one hour period.



WITHOUT SWITCH BOX



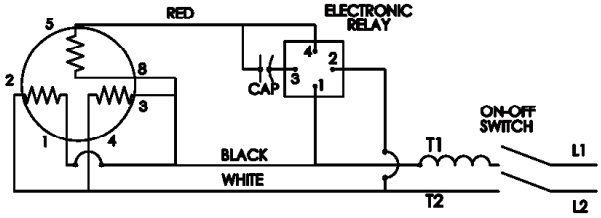
WITH SWITCH BOX

MODEL	Force Impact lbs.	Force Impact N+	Volt	Amps **	PH.	Speed VPM	Wt. lbs.	Wt. kg.	dB*	DUTY CYCLE
US-100	200	890	115 AC/DC	0.65	1	10000	4	2	78	INT.
US-450	450	2002	115 AC/DC	3	1	9000	13	6	80	INT.
US-700	1250	5560	115 AC/DC	3.5	1	8000	20	9	80	INT.
US-900	1500	6672	115 AC/DC	4.5	1	10000	18	8	85	INT.
US-1600	2700	12010	115 AC/DC	5	1	9000	20	9	85	INT.

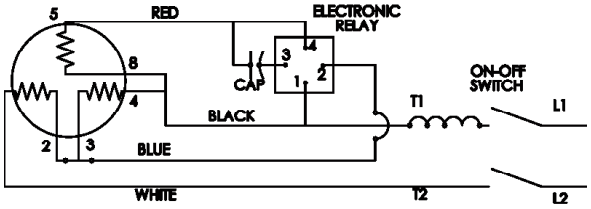
+N = Centrifugal force in Newtons *Decibel on A-scale at 3' (1 meter) **5 lbs. (Aluminum)
**Amps shown for 115 volt AC (240 volt amps are 1/2 of 120 volts)

SFC - END MOUNT & FC - FAN COOLED Line

115 VOLT



230 VOLT



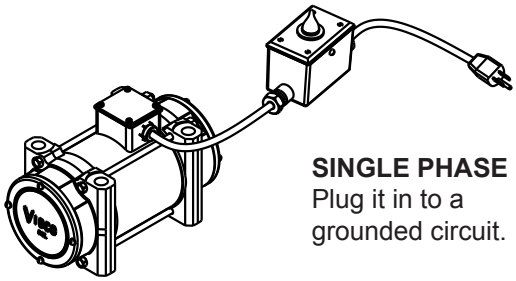
Model	Ph.	Amp.	Volt***	V.P.M.**	Force (Impact) lbs./N Adjustable Min. lbs.	Min. N	Norm. lbs.	Norm. N	Max. lbs.	Max. N	dB*	Wt. lbs.	Wt. kg.
SFC-100	1	4.2/2.1	115/230	3600	60	267	100	445	150	667	60	25	11.3
	3	1.6/.8	230/460									21	9.5
SFC-300	1	4.2/2.1	115/230	3600	100	445	220	979	300	1334	62	27	12.2
	3	1.5/.8	230/460									23	10.4
FC-100	3	4.2/2.0	115/230	3600	100	445	220	979	300	1334	62	34	15.4
	3	1.6/.8	230/460									31	14.1
FC-400	1	4.2/2.1	115/230	3600	150	667	300	1334	450	2002	64	35	15.9
	3	1.6/.8	230/460									32	14.5

* dB at 3')1 meter) on A-scale
** 1800 V.P.M. (Vibrations Per Minute) available
*** 575 volt available
N = centrifugal force in Newtons

TAKE AN AMPERAGE READING WHILE THE VIBRATOR IS RUNNING

ELECTRICAL INSTALLATION AND WIRING SPECIFICATIONS

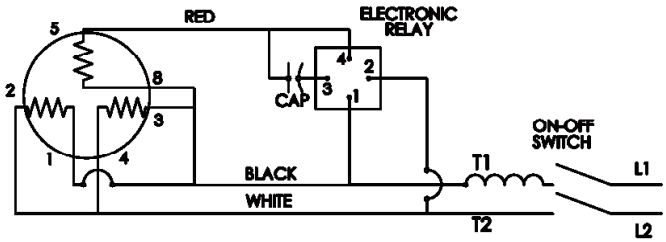
Heavy Duty Line



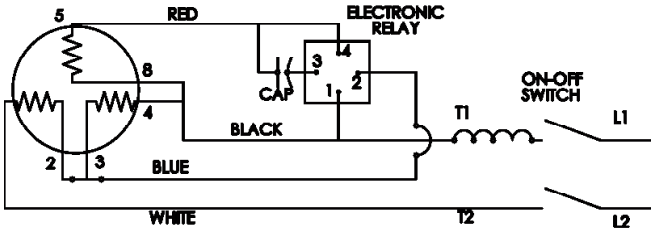
SINGLE PHASE
Plug it in to a grounded circuit.

SINGLE PHASE

115 VOLT



230 VOLT

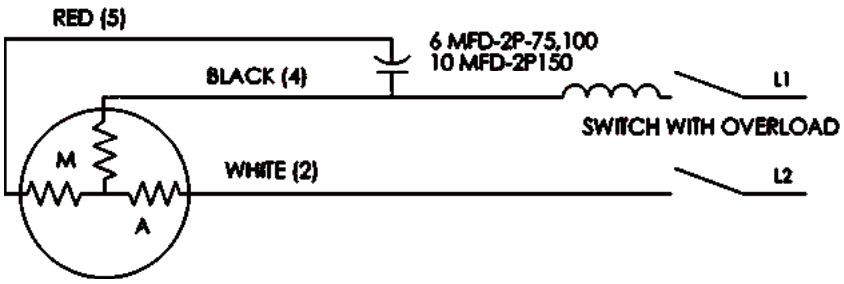


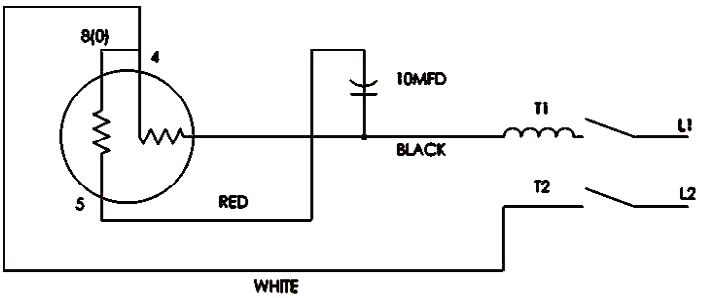
MODELS 2P-200, 450 & 800;
4P-700, 1000 & 1400;
6P-500

ALL REPLACEMENT PARTS ARE AVAILABLE FROM VIBCO FACTORY. CALL TODAY!

MODEL 2P-75, 100

STANDARD WIRING SHOWN
Any questions, consult a qualified, licensed electrician or call VIBCO.



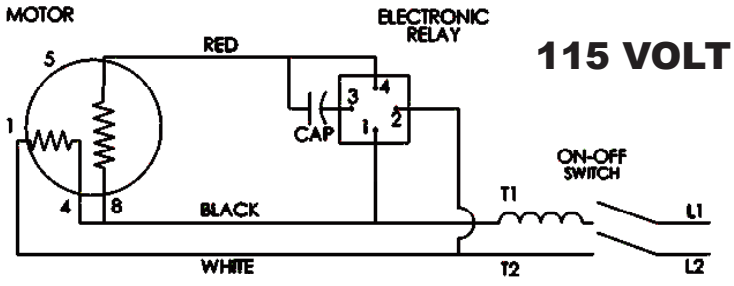


MODEL 2P-150
3 or 9 wire

STANDARD WIRING SHOWN
Any questions, consult a qualified, licensed electrician or call VIBCO.

MODEL 4P-350, 600

STANDARD WIRING SHOWN
Any questions, consult a qualified, licensed electrician or call VIBCO.

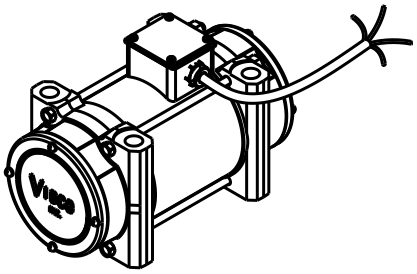


115 VOLT

5 & 8 STARTER WINDING TO REVERSE ROTATION INTERCHANGE 5 & 8

ELECTRICAL INSTALLATION AND WIRING SPECIFICATIONS

Heavy Duty Line *continued*

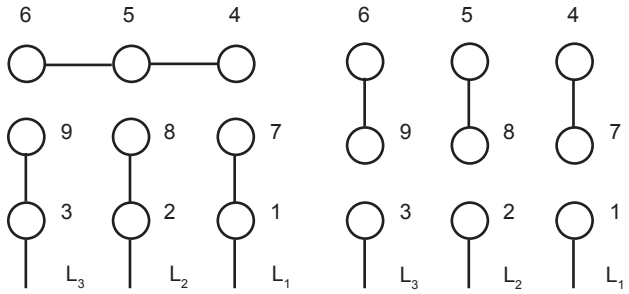


THREE PHASE

Three phase units must be connected to three phase motor starters with proper overload protection. **MUST** be installed to code by a qualified, licensed electrician or warranty is void.

Follow numbers on leads.
NOTE: Some wires may be color-coded as follows:

1 - blue	4 - yellow	7 - pink
2 - white	5 - dark gray	8 - red
3 - orange	6 - purple	9 - light gray



230 or 240 volt **460 or 480 volt**

Model	PHASE	1 PHASE Amperes at Volt 115/230	3 PHASES Amperes at Volt 230/460	3 PHASES Amperes at Volt 575	H.P.	Force (Impact) lbs./N* Adjustable MIN lbs.	MIN N	MAX lbs.	MAX N	**dB	Weight*** lbs.	Weight*** kg.
3600 VIBRATIONS PER MINUTE - 2 POLE												
2P-75	1&3	.5/.25	.2/.1	-	1/5	50	222	75	334	100	445	60	12	6
2P-100	1&3	.5/.25	.2/.1	-	1/5	100	445	150	667	175	778	63	12	6
2P-150	1&3	1.8/.9	.6/.3	.12	1/4	130	578	175	778	250	1112	63	26/25	12/11
2P-200	1&3	3/1.5	1/.5	.45	1/3	180	801	325	1446	400	1779	62	35/33	16/15
2P-450	1&3	5/2.5	1.2/.6	.5	1/2	100	445	680	3025	1100	4893	64	55 (46)	25 (21)
2P-800	1&3	8/4	2/1	.8	3/4	100	445	1000	4448	1750	7784	70	85/80	39/36
2P-1700	3	-	3/1.5	1.2	1 1/2	600	2669	1500	6672	2500	11120	72	90	41
2P-2500	3	-	5/2.5	3.0	2	500	2224	1650	7339	3000	13344	73	105	48
2P-3500•	3	-	5/2.5	1.7	2	500	2224	1650	7339	3000	13344	75	105	48
2P-4500•	3	-	5.5/2.8	3.1	2	2200	9786	3450	15346	5000	22240	76	110	50
2P-5500•	3	-	8/4	3.2	3	500	2224	3300	14678	5600	24909	72	220	100
• Special Bearings for Concrete Applications					1800 VIBRATIONS PER MINUTE - 4 POLE									
4P-350	1&3	4/2	1/.5	.3	1/4	50	222	100	445	200	890	60	36/34	16/15
4P-600	1&3	4.2/2.1	1/.5	.3	3/8	150	667	250	1112	400	1779	60	40/38	18/17
4P-700	1&3	6/3	1.2/.6	.6	1/2	100	445	300	1334	500	2224	63	60/55	27/25
4P-1000	1&3	6.2/3.1	1.2/.6	.6	1/2	250	1112	500	2224	800	3558	63	54/43	25/20
4P-1400	1"&3	*/*	3.5/1.8	1.2	1	400	1779	700	3114	1100	4893	70	100/95	46/43
4P-2000	3	-	4/2	1.6	1 1/2	750	3336	1100	4893	1500	6672	72	98	45
4P-3000	3	-	6/3	2.4	2 1/2	1500	6672	2200	9786	3000	13344	74	200	91
4P-5000	3	-	6/3	2.4	3	1550	6894	3900	17347	4500	20016	75	225	102
4P-10000	3	-	10/5	4	5	4560	20283	8000	35584	10000	44480	76	460	209
1200 VIBRATIONS PER MINUTE - 6 POLE														
6P-300	1&3	4/2	1.2/.6	.5	1/4	50	222	125	556	250	1112	60	60/55	27/25
6P-500	1&3	4.2/2.1	1.6/.8	.5	1/4	100	445	200	890	400	1779	60	62/58	28/26
6P-1000	3	-	4/2	1.6	1	350	1557	450	2002	700	3114	72	98	45
6P-1500	3	-	6/3	2.4	1 1/2	700	3114	1000	4448	1500	6672	74	200	91
6P-2500	3	-	6/3	2.4	2	700	3114	1250	5560	2000	8896	75	225	102
6P-5000	3	-	10/5	4	3	2000	8896	3000	13344	4500	20016	76	460	209
900 VIBRATIONS PER MINUTE - 8 POLE														
8P-500	3	-	4/2	1.6	1/4	180	801	250	1112	400	1779	65	98	45
8P-750	3	-	6/3	2.4	1/4	400	1779	575	2558	800	3558	74	200	91
8P-1250	3	-	6/3	2.4	1	400	1779	700	3114	1250	5560	75	225	102
8P-2500	3	-	10/5	4	1 1/2	1150	5115	1800	8006	2500	11120	76	460	209

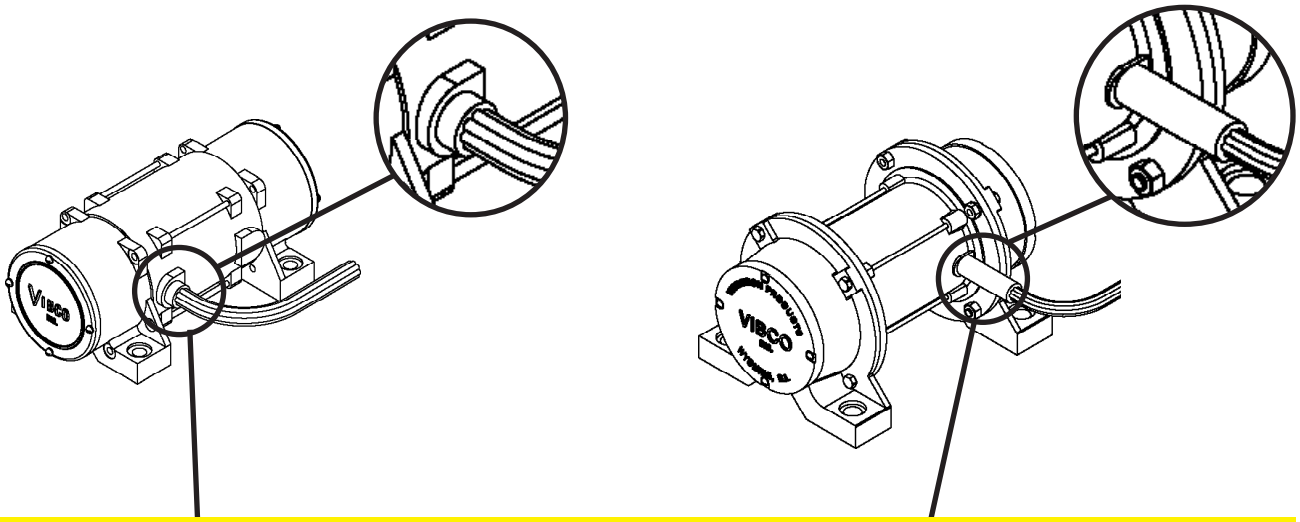
* Consult factory for availability
** Decibel at 3' (1 meter) on A scale
*** Final figure 1 phase units, like other 3 phase units
Note: Most Vibrators available in both 50 & 60 cycles, 115 to 575 volt.
+ N = Centrifugal Force in Newton

TAKE AN AMPERAGE READING WHILE THE VIBRATOR IS RUNNING

ELECTRICAL INSTALLATION AND WIRING SPECIFICATIONS

Explosion Proof Line

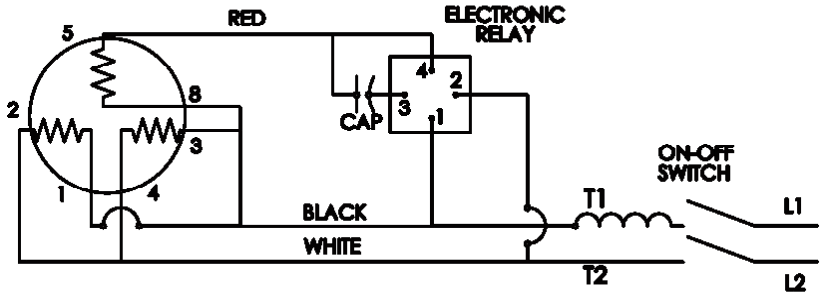
All VIBCO Explosion Proof Electric Vibrators **MUST** be installed to code by a qualified, licensed electrician or warranty is void.



DO NOT MAKE DIRECT OR HARD CONNECTION TO NIPPLE. Nipple will crack & compromise explosion proof rating. Use flexible cable. Attach one end to nipple & other end to explosion proof conduit box. Make all connections from conduit box.

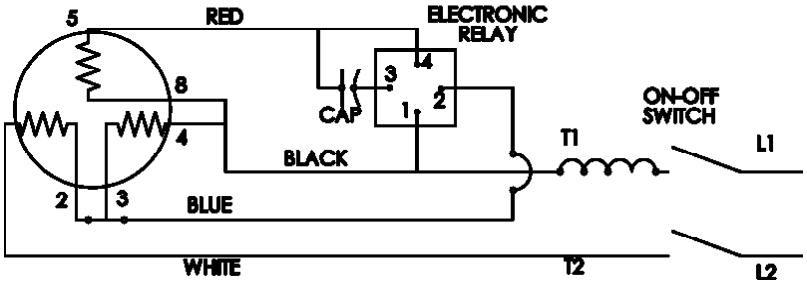
SINGLE PHASE

115 VOLT



For single-phase units, a relay and capacitor is necessary to start the vibrator. These components should be mounted in an explosion proof approved enclosure. Make sure it is large enough to house these components. If they are placed further than 10' away from motor, make sure pick-up voltage is 140+7 and drop out voltage 40 or less. Nominal current in MA = 49. Coil DC resistant in OHMS 530 + 15% at 25OC. If further away from motor than 10'. a #14 or #12 wire might be necessary.

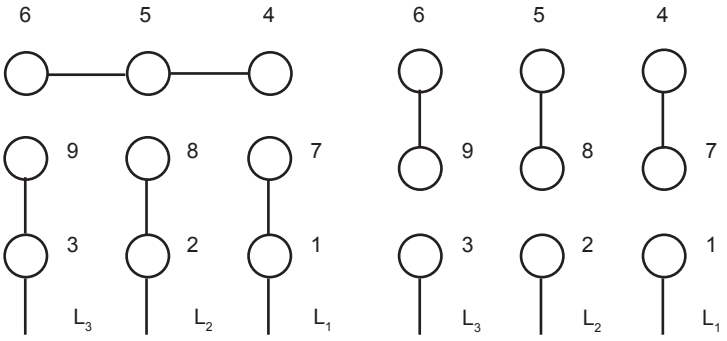
230 VOLT



ELECTRICAL INSTALLATION AND WIRING SPECIFICATIONS

Explosion Proof Line *continued*

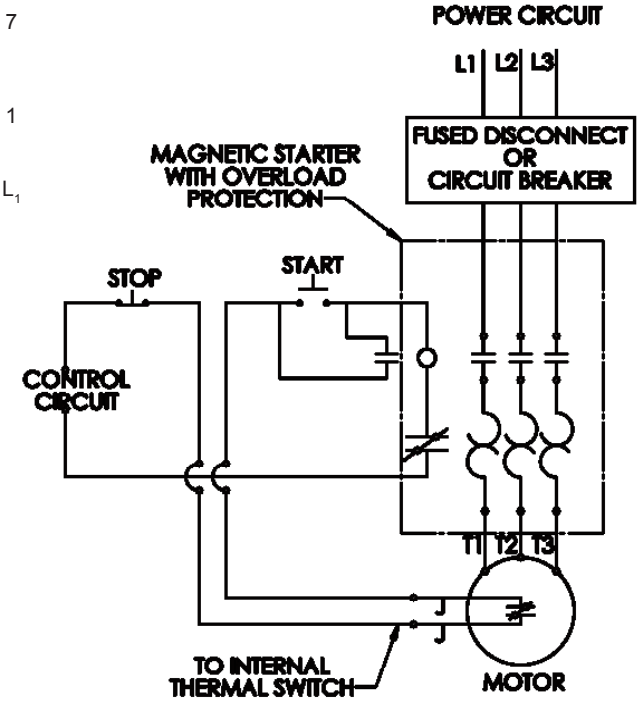
THREE PHASE



230 or 240 volt

460 or 480 volt

Three phase units **MUST** be connected to three phase motor starters with proper overload protection. **MUST** be installed to code by a qualified, licensed electrician or warranty is void.



Follow numbers on leads.
NOTE: Some wires may be color-coded as follows

1 - blue	4 - yellow	7 - pink
2 - white	5 - drk gray	8 - red
3 - orange	6 - purple	9 - lt gray

Model	Ph.	Amp.	VOLT	HP	VPM	Force (Impact) lbs./N Adjustable Min. lbs.	Min. N	Norm. lbs.	Norm. N	Max. lbs.	Max. N	dB***	WEIGHT lbs.	WEIGHT kg.	TEMP CODES	CLASS
2PX-200	3	1.4/0.7	230/460	1/3	3450	150	667.2	300	1334	450	2001.6	60	20	9	T3C	CLASS I GRP C&D
2PX-450	1	5.6/2.8	115/230	1/3	3450	110	489.28	450	2002	900	4003.2	62	56	25	T3C	CLASS I GRP C&D
	3	1.6/.8	230/460	1/2												
	3	0.65	575	1/2												
4PX-350	3	0.7	460	1/3	1725	100	444.8	200	889.6	300	1334.4	62	22	10	T3C	CLASS I GRP C&D
4PX-700	1	5.6/1.8	115/230	1/4	1725	300	1334.4	500	2224	700	3113.6	64	58	26	T3	CLASS I GRP C&D
	3	1.4/.7	230/460	1/2												
4PX-2000	3	3.2/1.6	230/460	3/4	1725	625	2780	1200	5338	2000	8896	72	130	59	T3C	CLASS I GRP D and CLASS II GRP F&G
	3		575													
4PX-5000	3	5.2/2.6	230/460		1725	1700	7561.6	4800	21350	6500	28912	75	240	109		CLASS GRP
			575													

*** decibel at 3 ft (1 meter) on A-Scale

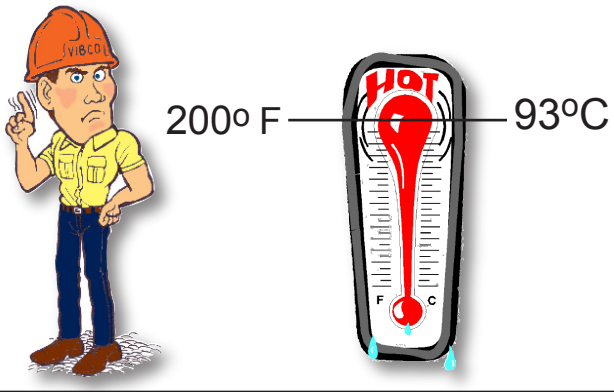
TAKE AN AMPERAGE READING WHILE THE VIBRATOR IS RUNNING

ELECTRICAL INSTALLATION AND WIRING SPECIFICATIONS

overload protection section needed here

MAXIMUM OPERATING TEMPERATURE

The skin temperature of the vibrator should not exceed 200°F (93°C). If skin temperature exceeds this, consult VIBCO for alternate solutions.



VIBRATOR MAINTENANCE

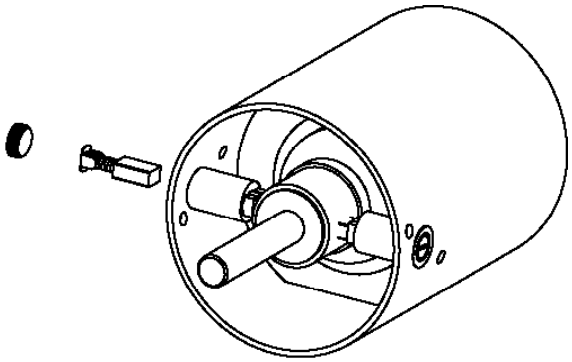
SCR LINE

LUBRICATION

Bearings are pre-lubricated for life.

BRUSHES

Unit has two brushes. Brush life is approximately 1,000 hours. To change brushes, remove brush caps and brushes. Make sure new brush slides freely in brush slot (if not, file down gently to fit). ***See chart on next page for correct replacement measurements and part numbers.***



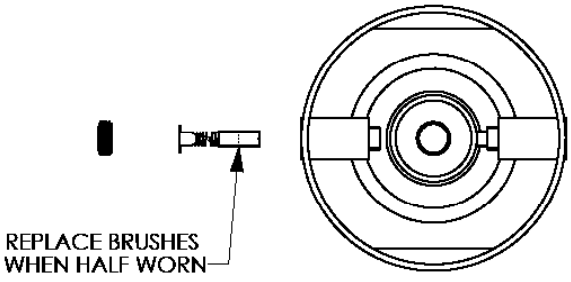
US LINE

LUBRICATION

Bearings are pre-lubricated for life.

BRUSHES

Unit has two brushes. Brush life is approximately 1,000 hours. To change brushes, remove brush caps and brushes. Make sure new brush slides freely in brush slot (if not, file down gently).The brush life is dependent on the duty cycle.***See chart on next page for correct replacement measurements and part numbers.***



DUTY CYCLE

See page XXX for duty cycle details.

VIBRATOR MAINTENANCE

VIBRATOR MODEL NUMBER	BRUSH PART #	NEW BRUSH LENGTH	CHANGE WHEN WORN TO	CAP PART #
SCR-100 SCR-360 SCR-400	100SCR05-2	9/16"	5/16" or less	100SCR05-2
SCR-200 US-450T US-700	300US59-15	5/8"	5/16" or less	300US59-13
DC-450T DC-700	300US60-15	5/8"	5/16" or less	300US59-13
DC-100 DC-200 DC-300 DC-500	33DC014	11/16"	3/8" or less	33DC016
SCR-1000	48SCR25-16	13/16"	7/16" or less	48SCR25-19
US-900 US-1600 USL-900 USL-1600 USP-900	900US11	5/8"	5/16" or less	900US10
DC-900 DC-1600	900-12-16	9/16"	5/16" or less	900US10
DC-3500	1500PF41	7/16"	5/16" or less	N/A
DC-3500-24V	1500PF71	11/16"	1/2" or less	N/A
US-100	100US504	5/8"	5/16" or less	100US05
SCR-500	425SCR13-9	11/16"	3/8" or less	42SCR13-8

Standard Qty: (2) brushes per vibrator, except DC-3500 with QTY (4)

NOTE: a longer duty cycle considerably decreases the brush life.

VIBRATOR MAINTENANCE

SFC/FC LINE

LUBRICATION

Bearings are pre-lubricated for life.

HEAVY DUTY LINE

LUBRICATION

The ball bearings in the 2P-75, 2P-200, 2P-450, 4P-350, 4P-700, 4P-1000, 6P-500, FC, SFC, SPR, US, and SCR, are pre-lubricated for life.

Model 2P-800 has one pre-lubricated ball bearing and one roller bearing. All other models have two roller bearings.

Roller bearings last much longer than ball bearings. However, the roller has a larger contact area than the ball and needs more lubricant. Therefore, they have to be re-lubricated at certain intervals.

For vibrators with 3450 RPM, lubricate every two weeks for continuous duty or 400 or 500 operating hours; for 1725 RPM vibrators, every 1000 to 2000 operating hours or every month for continuous duty. **Use 2.5 to 3 grams** (two pumps with standard manual grease gun). **Do not over grease**, otherwise it will leak out. Removing the end cover to find out if unit has been over-greased. The same amount should be on inside of bearings as on the stator side. If there is too much, unit should be taken apart and cleaned. For vibrators without a grease nipple (2P-75, 100, 150, 200, 450, 800), the outside eccentric and bearing cover have to be removed. If the bearing has a grease seal, remove it and discard it, remove as much grease as possible and repack bearing.

RECOMMENDED LUBRICANT

EXPLOSION PROOF LINE

LUBRICATION

To Obtain Maximum Performance
It is not necessary to operate the vibrator continuously or at maximum output to obtain maximum performance. Timers, etc. should be used to tune the timing of the vibrator for optimum performance and ensure a longer life.

SCR LINE RUN TIME/DUTY CYCLE

All SCR Models are are rated for **CONTINUOUS DUTY** at frequency settings between 950 - 2500 vibrations per minute (VPM) - which is approx. 25 to 60 on speed control dial.

For frequencies below 950 or above 2500 VPM, rating is **INTERMITTENT DUTY**. Use 50% duty cycle where maximum run time = 30 minutes in any one hour period.

NOTE: Duty cycle can be increased by adding additional ventillation. Consult VIBCO for details.

US HIGH FREQUENCY LINE RUN TIME/DUTY CYCLE

All US Models are are rated for **INTERMITTENT DUTY**.

Use 50% duty cycle where maximum run time = 30 minutes in any one hour period.

NOTE: Duty cycle can be increased by adding additional ventillation. Consult VIBCO for details.

SFC - END MOUNT & FC - FAN COOLED LINE RUN TIME/DUTY CYCLE

HEAVY DUTY LINE RUN TIME/DUTY CYCLE

Single phase (2P-75, 100 & 150):

For run times of 10 seconds or less, use 1:7 ratio for run time vs. off time. (example: 5 seconds on to 35 seconds off). For run times longer than 10 seconds, use 1:1 ratio.

Single phase (2P-200, 450, 800; 4P-350, 700, 1000, 1400; 6P-300, 500):

These are capacitor start models and rated for a MAXIMUM of 30 starts per hour.

Three phase:

For run times of 10 seconds or less, use 1:7 ratio for run time vs. off time. (example: 5 seconds on to 35 seconds off). For run times longer than 10 seconds, any cycle is acceptable.

EXPLOSION PROOF LINE RUN TIME/DUTY CYCLE

Single phase (2PX-450; 4PX-700):

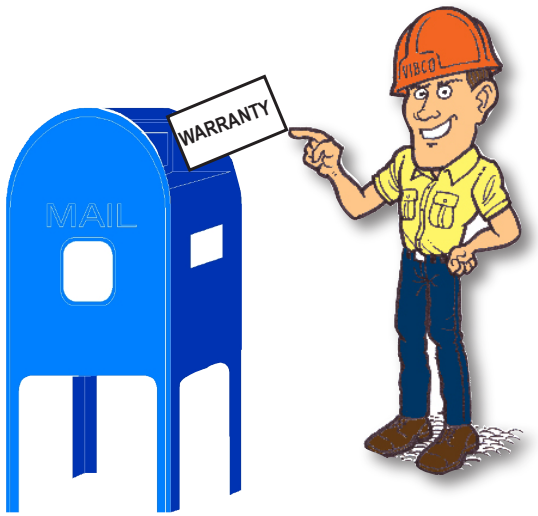
These are capacitor start models and rated for a MAXIMUM of 30 starts per hour.

Three phase (2PX-200, 450; 4PX-350, 700, 2000 & 5000)**:**

For run times of 10 seconds or less, use 1:7 ratio for run time vs. off time. (example: 5 seconds on to 35 seconds off). For run times longer than 10 seconds, any cycle is acceptable.

VIBRATOR SHOULD NEVER BE OPERATED IF BIN DISCHARGE IS CLOSED, UNLESS IT IS BEING USED FOR A SHORT PERIOD TO CLEAN OUT A NEARLY EMPTY HOPPER.

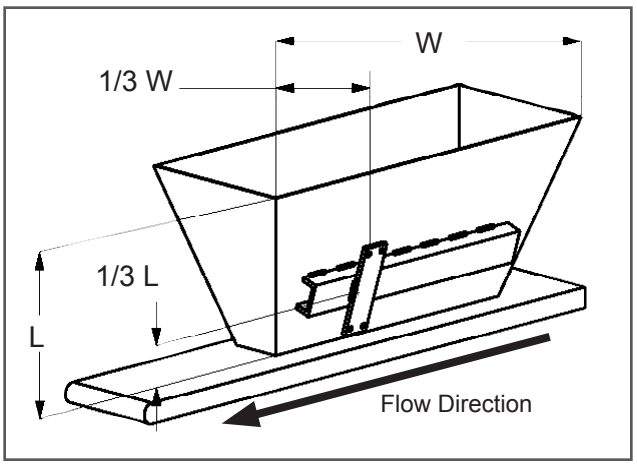
DON'T FORGET TO MAIL YOUR WARRANTY CARD!



ALTERNATIVE APPLICATION MOUNTING SUGGESTIONS

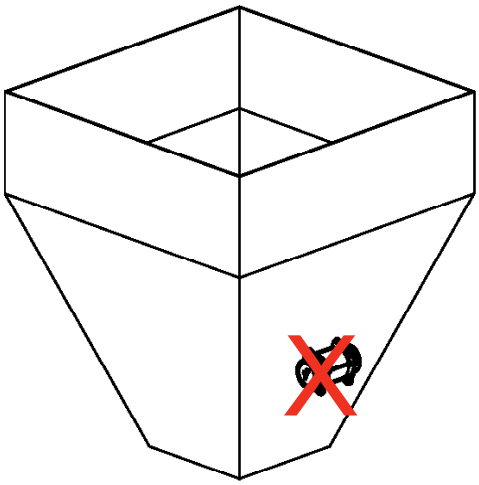
Bin Configuration & Mounting

BELT CONVEYORS



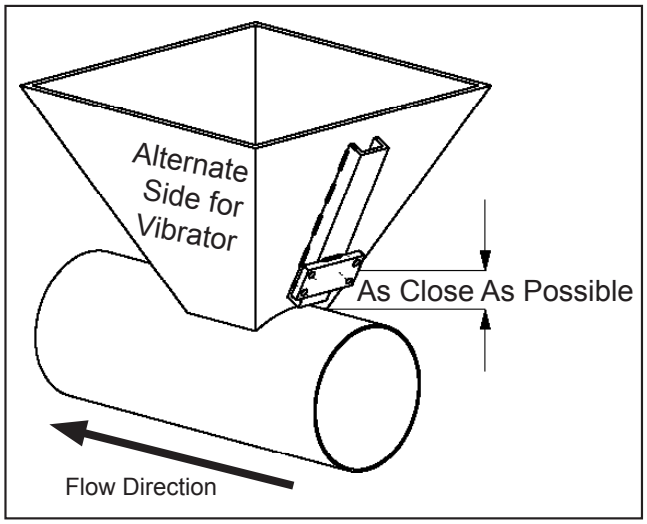
These are just some alternate mounting suggestions. For additional suggestions, consult VIBCO Technical Support at 800-633-0032.

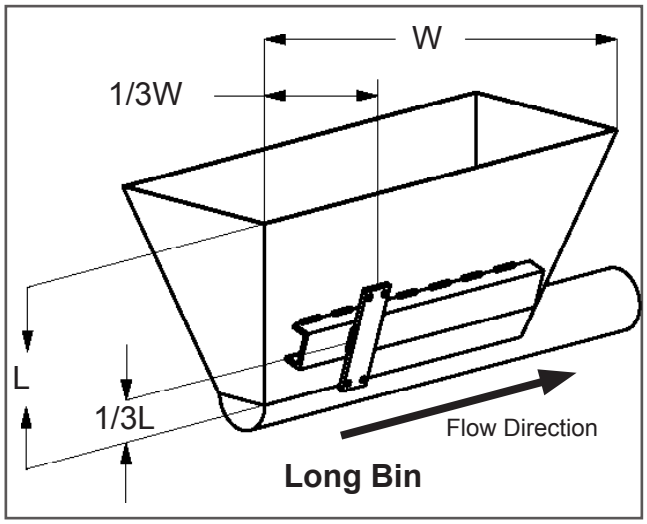
Belt conveyors feed from the front. Vibrator should be placed 1/3 from the front. If 2 vibrators are used, place second one directly opposite 1/3 from the back. Do not operate back vibrator until bin is empty in front and the front vibrator has turned off. For more details, call VIBCO at 800-633-0032.



DO NOT MOUNT VIBRATOR DIRECTLY TO SURFACE OF BIN OR HOPPER!!! IT WILL DAMAGE THE BIN/HOPPER.

SCREW CONVEYORS

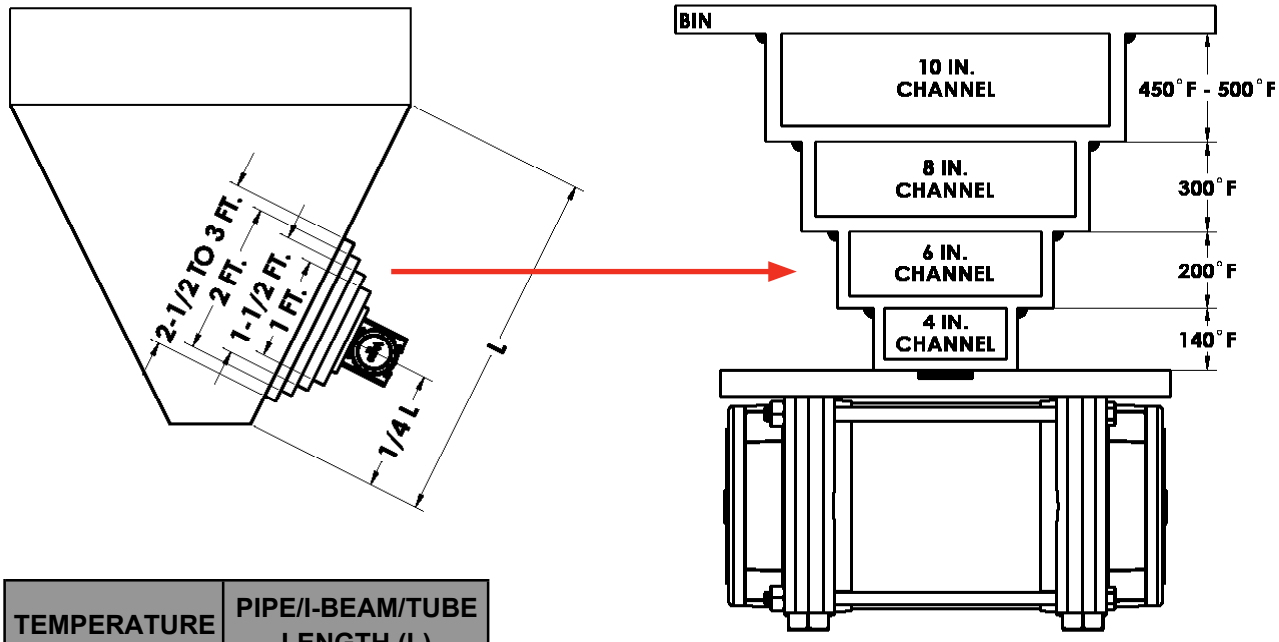




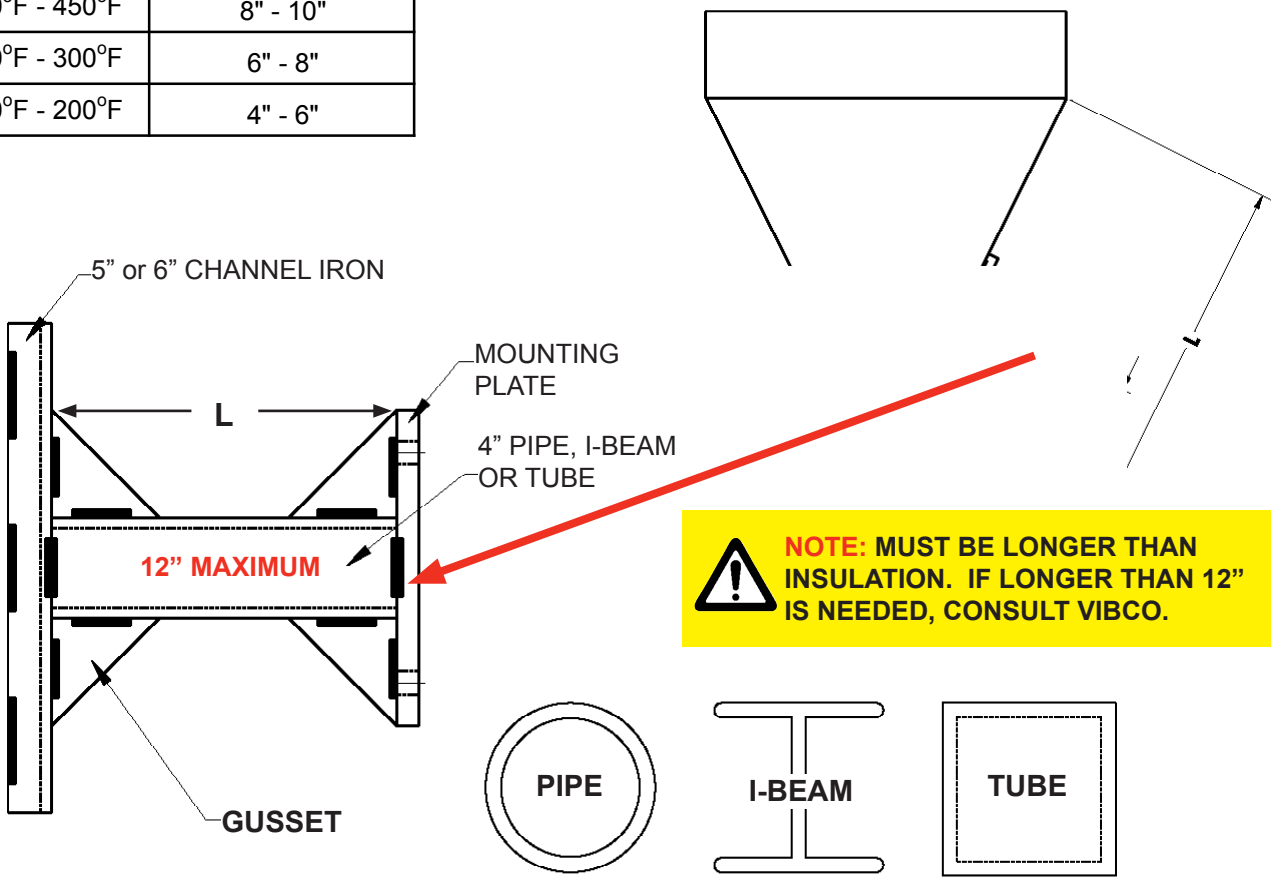
Screw conveyors feed from back. Vibrator should be placed 1/3 from the back. If 2 vibrators are used, place 2nd one directly opposite 1/3 from the front. Do not operate front vibrator until bin is empty in back and the back vibrator has turned off. For more details, call VIBCO at 800-633-0032.

ALTERNATIVE APPLICATION MOUNTING SUGGESTIONS

HEAT MOUNTS

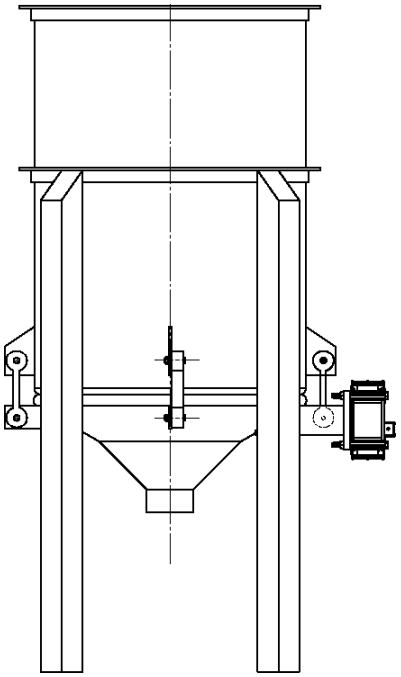


TEMPERATURE	PIPE/I-BEAM/TUBE LENGTH (L)
450°F - 500°F	12"
300°F - 450°F	8" - 10"
200°F - 300°F	6" - 8"
140°F - 200°F	4" - 6"



NOTE: MUST BE LONGER THAN INSULATION. IF LONGER THAN 12” IS NEEDED, CONSULT VIBCO.

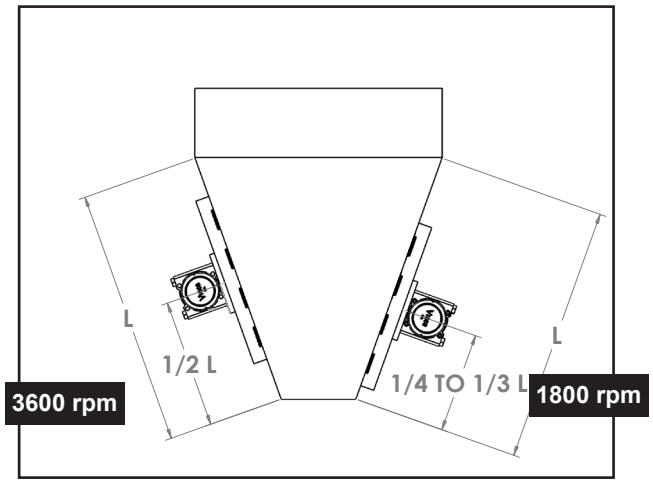
ALTERNATIVE APPLICATION MOUNTING SUGGESTIONS



LIVE BOTTOM BINS

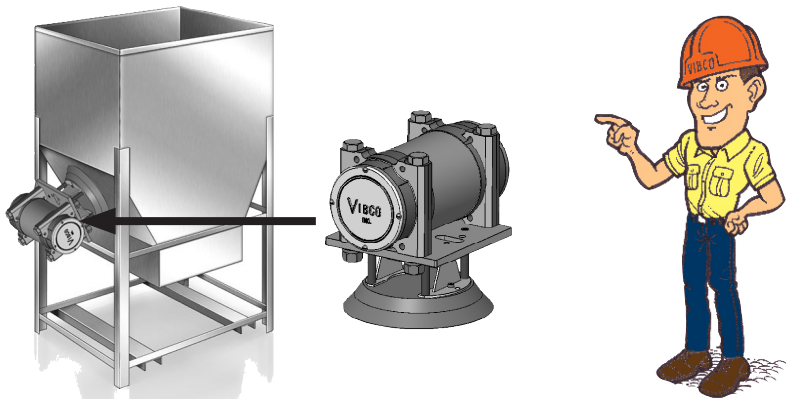
INTERFERENCE VIBRATION

For really tough materials, large bins, bins containing different particle sizes or bins used to store different materials, ***Interference Vibration*** will move the materials more efficiently. This uses ***TWO*** vibrators on the bin with different frequencies (speeds) - most commonly at 3600 and 1800 rpm.



EXAMPLE: A bin containing 15,000 lbs. of material needs 1500 lbs. of vibration force. Use two vibrators, one at 1800 rpm with 700 lbs. maximum force, and one at 3600 rpm with 800 lbs. maximum force. Mount the 3600 rpm unit closest to the discharge -- 1/3 up the bin side, and the 1800 rpm unit on the opposite side and 1/2 way up the bin side. The frequency of each vibrator will "interfere" with the other and create a simulated vibration ranging from 3600 + 1800 = 5400 vpm to 3600 - 1800 = 1800 vpm. The vibration will go through the material's "resonance" frequency and flow easily. Consult VIBCO for further details.

Is your bin or hopper made of a material not suitable for welding??
Call VIBCO now and ask about our VIBRAGrip™ suction cup mount system.



PHONE: 800-633-0032 **FAX: 401-539-2584**
www.vibco.com **vibrators@vibco.com**

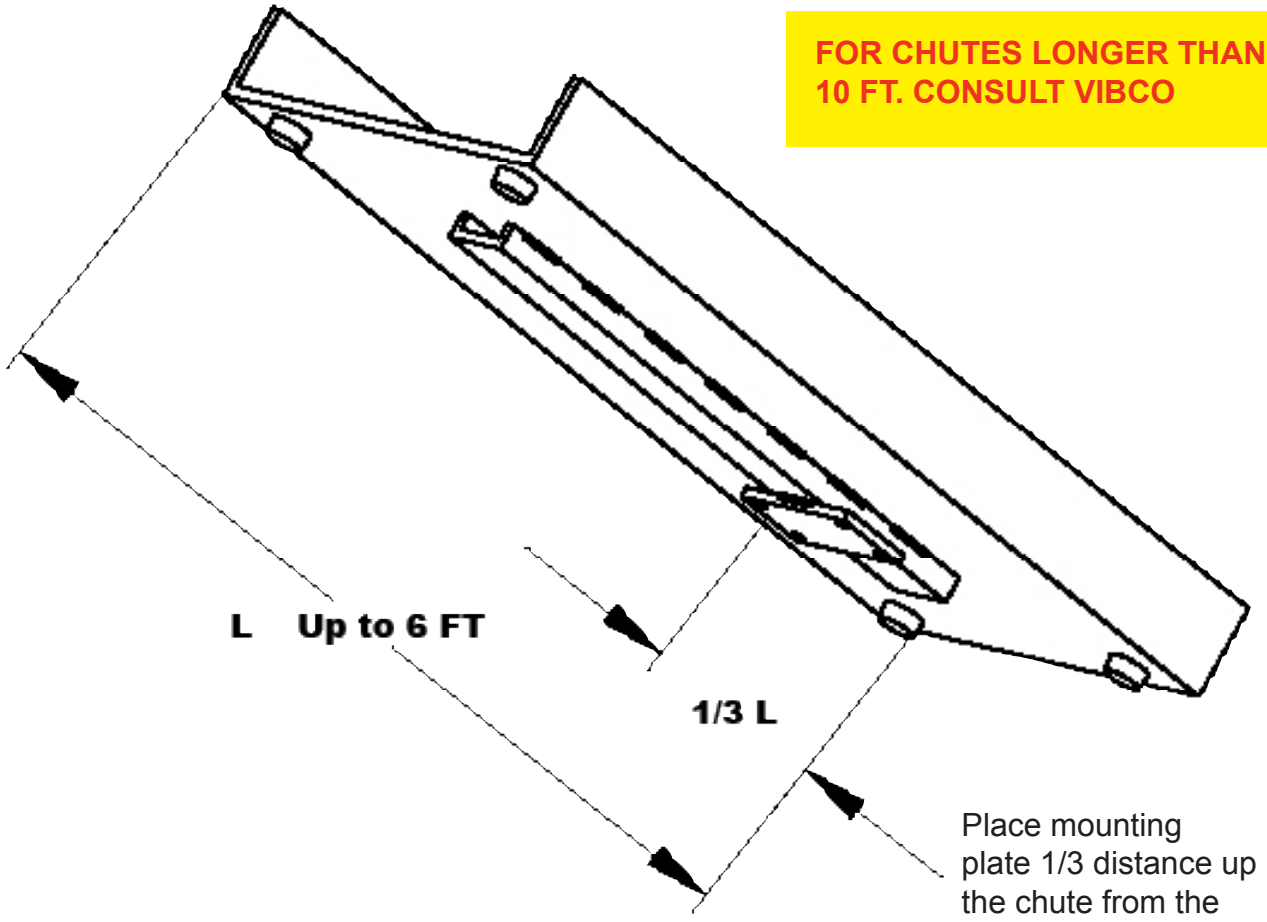
CHUTES

In order to successfully move material in a chute, the “angle of repose” of the material has to be known. It can be measured by pouring a cup of the material on a table. The angle between the table and the cone the material makes is the “angle of repose”. To move the material in the chute, it should be inclined no less than 1/2 of the “angle of repose” If this cannot be obtained, a feeder is necessary to move the material.

For optimum performance follow these guidelines:

- Force (impact) needed on vibrator is equal to weight of chute + vibrator + maximum amount of material in chute.
- Chutes must have an inclination of at least 10° for vibrators to be able to move the material. If inclination is less, the chute has to be made into a feeder. Contact VIBCO for selecting the proper size vibrator.
- Chutes up to 6 ft. long can generally be handled by one vibrator mounted approximately 1/3 from the discharge.
- On chutes from 6 - 10 ft. long, two vibrators are needed. One should be placed 18 to 24 inches from the discharge. The other approximately in the middle of the chute. Since chutes are very sensitive to vibration, provision should be made to move the lower vibrator 6 inches in either direction. This could mean the difference between moving or not moving the material.

FOR CHUTES LONGER THAN 10 FT. CONSULT VIBCO



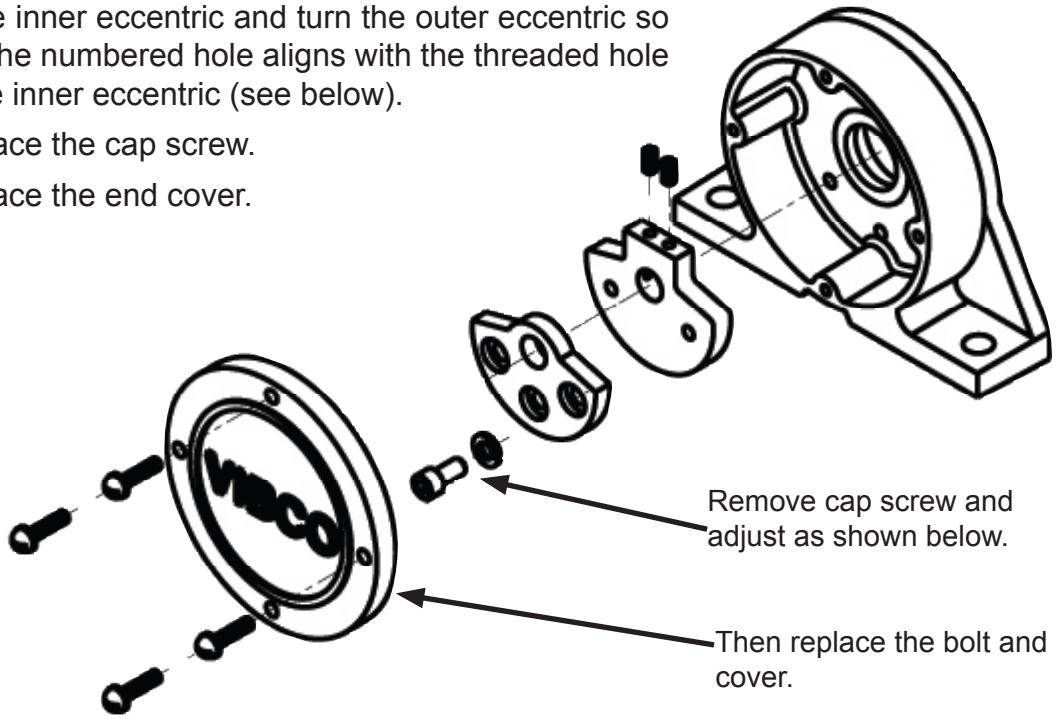
CHANGING OUTPUT FORCE / ECCENTRIC SETTINGS

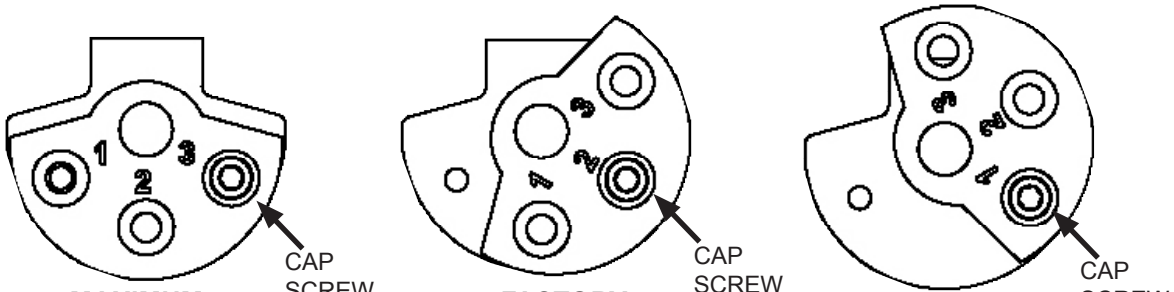
MODELS:
SCR-100, 200
SFC-100, 300

NOTE: Models US-100, 450 and 700 have fixed eccentrics and are NOT adjustable. Consult factory for alternate force options.

To change the force:

1. Remove the end cover.
2. Remove the cap screw that holds the outer eccentric to the inner eccentric and turn the outer eccentric so that the numbered hole aligns with the threaded hole in the inner eccentric (see below).
3. Replace the cap screw.
4. Replace the end cover.





MAXIMUM FORCE
Intermittent Duty Only

FACTORY SETTING
Maximum Setting for Continuous Duty

MINIMUM FORCE
Optimum Setting for Long Life of Vibrator

NOTE: If you INCREASE the force of the vibrator, you **MUST** take a new amperage draw reading to ensure your vibrator is still operating within the specified limits.

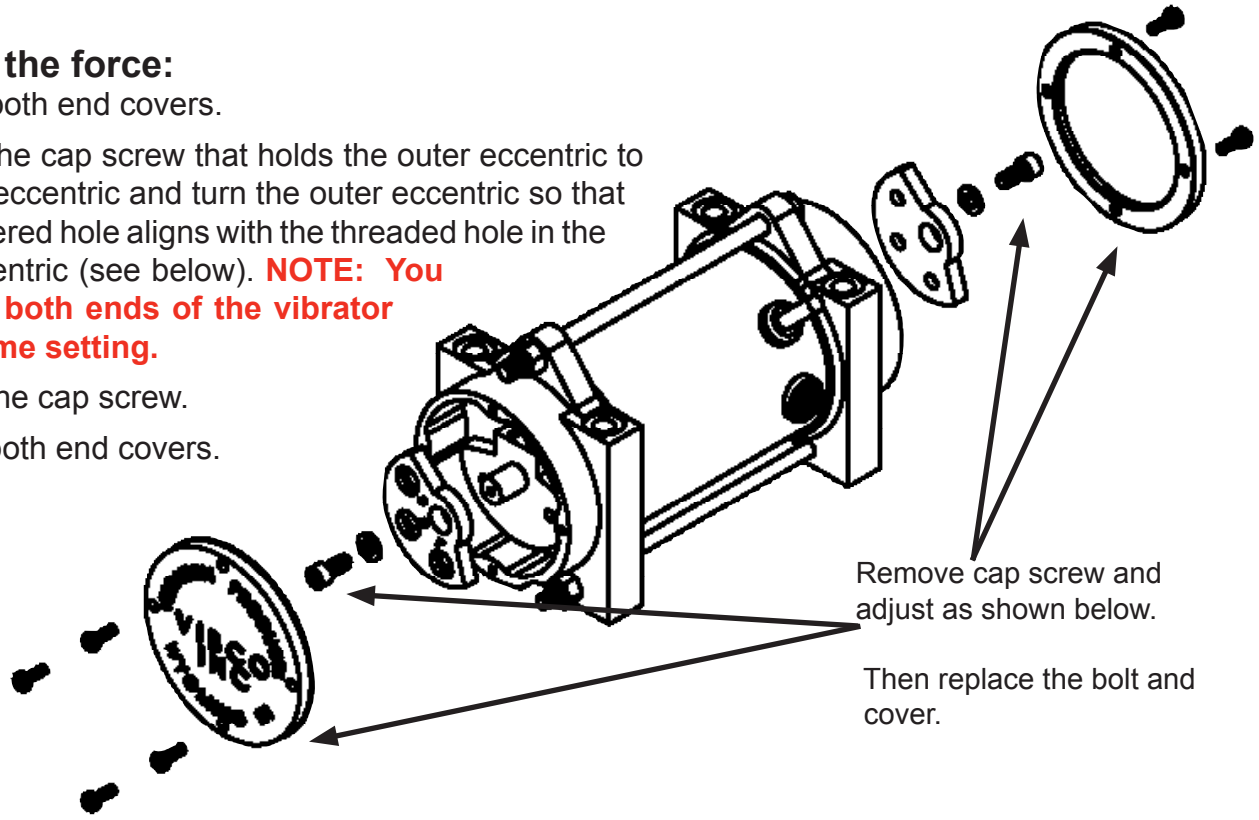
NOTE: These models can only be run intermittently when set to higher than factory set output forces (maximum running time of 30 minutes in any one hour period).

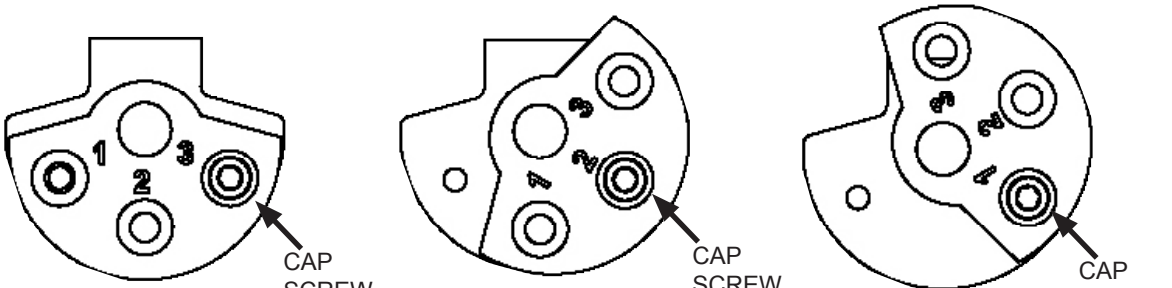
CHANGING OUTPUT FORCE / ECCENTRIC SETTINGS *continued*

MODELS:
SCR-300, 400
US-900, 1600
2P-75, 100, 150, 200
4P-350

To change the force:

1. Remove both end covers.
2. Remove the cap screw that holds the outer eccentric to the inner eccentric and turn the outer eccentric so that the numbered hole aligns with the threaded hole in the inner eccentric (see below). **NOTE: You must set both ends of the vibrator to the same setting.**
3. Replace the cap screw.
4. Replace both end covers.





MAXIMUM FORCE
Intermittent Duty Only

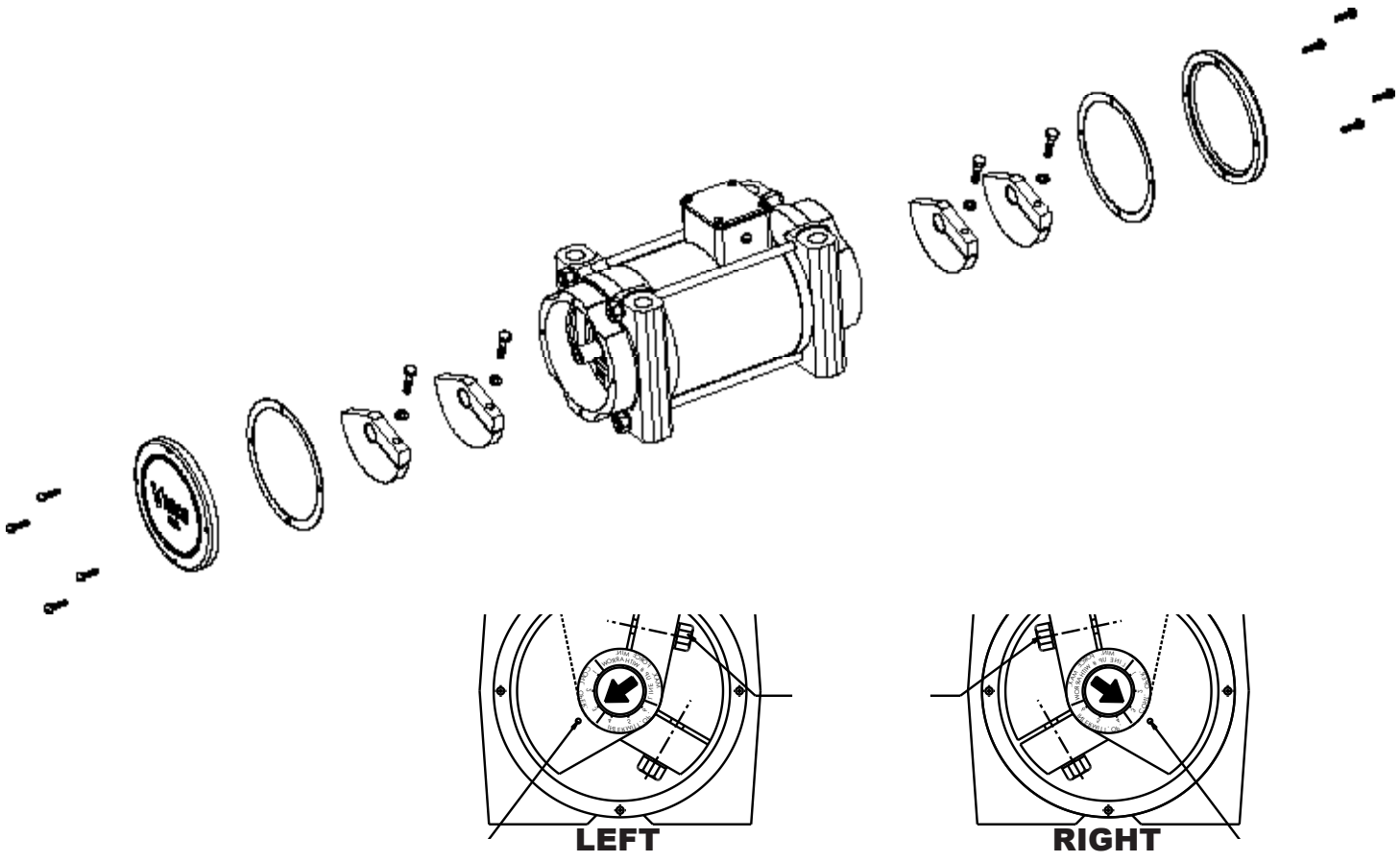
FACTORY SETTING
Maximum Setting for Continuous Duty

MINIMUM FORCE
Optimum Setting for Long Life of Vibrator

NOTE: If you INCREASE the force of the vibrator, you **MUST** take a new amperage draw reading to ensure your vibrator is still operating within the specified limits.

NOTE: These models can only be run intermittently when set to higher than factory set output forces (maximum running time of 30 minutes in any one hour period).

CHANGING OUTPUT FORCE / ECCENTRIC SETTINGS *continued*



NOTE: These vibrators are set to Setting #3 (Factory Setting).
Settings 1 - 3 are continuous duty rated.
Settings 4 - 6 are intermittent duty rated ONLY.

To adjust eccentric settings:

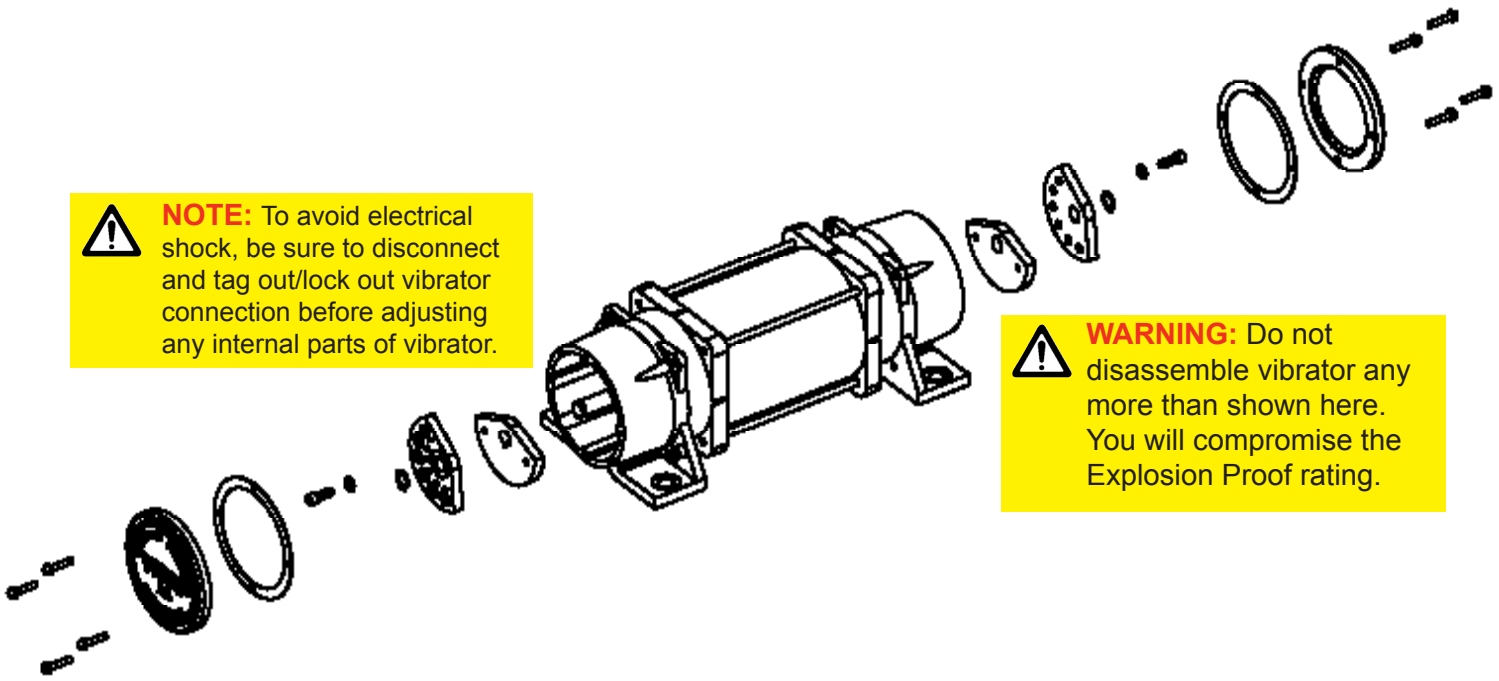
1. Remove both end covers from vibrator.
2. Loosen the bolt that holds the outer, labeled eccentric to the shaft. (NOTE: Some models have only (1) eccentric per side).
3. Turn the eccentric on the shaft to adjust force output. Align the arrow on the shaft to the desired setting. The higher the number, the greater the force. **NOTE: You must set both ends of the vibrator to the same setting.**
4. Tighten eccentric bolts and reinstall end covers.

For vibrators mounted in tandum to produce linear motion on feeders & tables:
In order to produce linear motion you must make sure vibrators rotate opposite from one another. The force output labels should be opposite to one another when viewed from the same side (one increases clockwise, the other counter-clockwise as in picture above). Follow instructions as above, and be sure you set both vibrators and both ends to the same setting.

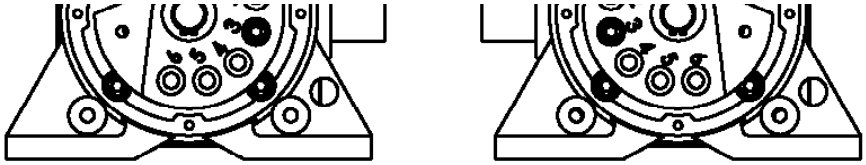
NOTE: If you INCREASE the force of the vibrator, you **MUST** take a new amperage draw reading to ensure your vibrator is still operating within the specified limits.

NOTE: These models can only be run intermittently when set to higher than factory set output forces (maximum running time of 30 minutes in any one hour period).

NOTE: To avoid electrical shock, be sure to disconnect and tag out/lock out vibrator connection before adjusting any internal parts of vibrator.



WARNING: Do not disassemble vibrator any more than shown here. You will compromise the Explosion Proof rating.



LEFT **RIGHT**

NOTE: These vibrators are set to Setting #3 (Factory Setting).
Settings 1 - 3 are continuous duty rated.
Settings 4 - 6 are intermittent duty rated ONLY.

To adjust eccentric settings:

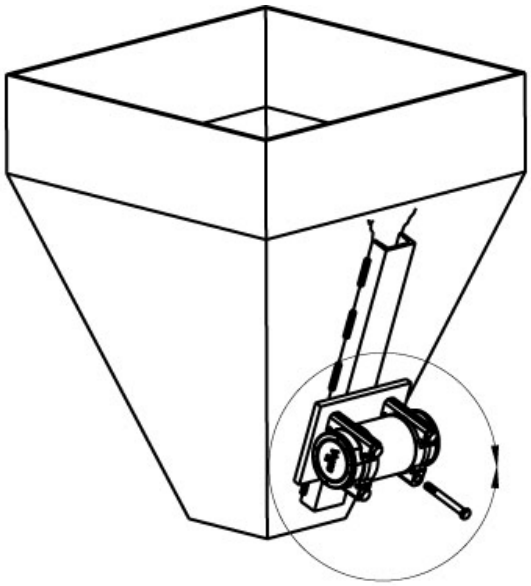
1. Remove both end covers from vibrator.
2. Loosen the bolt that holds the outer, labeled eccentric to the shaft. (NOTE: Some models have only (1) eccentric per side).
3. Turn the eccentric on the shaft to adjust force output. Align the arrow on the shaft to the desired setting. The higher the number, the greater the force. **NOTE: You must set both ends of the vibrator to the same setting.**
4. Tighten eccentric bolts and reinstall end covers.

For vibrators mounted in tandum to produce linear motion:
In order to produce linear motion you must make sure vibrators rotate opposite from one another. The force output labels should be opposite to one another when viewed from the same side (one increases clockwise, the other counter-clockwise as in picture above). Follow instructions as above, and be sure you set both vibrators and both ends to the same setting.

NOTE: If you INCREASE the force of the vibrator, you **MUST** take a new amperage draw reading to ensure your vibrator is still operating within the specified limits.

NOTE: These models can only be run intermittently when set to higher than factory set output forces (maximum running time of 30 minutes in any one hour period).

HOW TO FIX A CRACK IN YOUR BIN

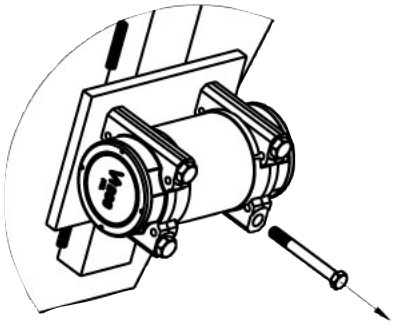


Cracked Bin Skin

Cracked bin skins are usually due to improper welding, improper mounting of the vibrator to the bin, too high an output force from the vibrator or vibrator running too long on an empty (or nearly empty) bin. If cracks have developed on your bin skin, follow the procedure detailed below to repair the cracks and eliminate any further cracking.

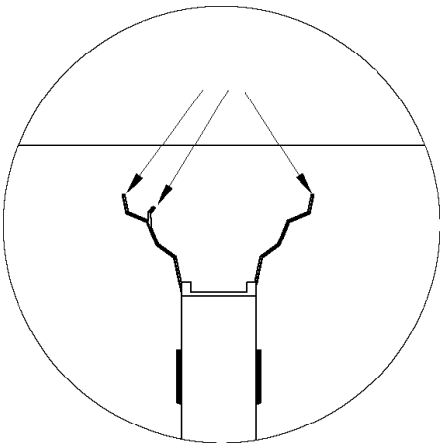
NOTE: bin skin cracks usually start at the ends of the channel iron.

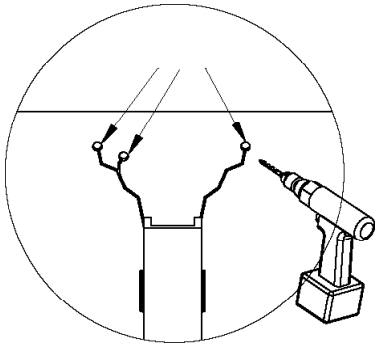
REPAIRING BIN CRACKS



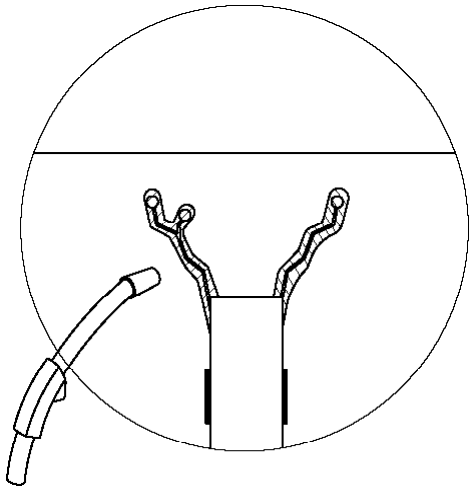
1) Remove the vibrator from the mounting plate.

2) Locate where cracks stop. Take note of any places where the cracks may have branched off. It is very important that you located all the branches of the crack.

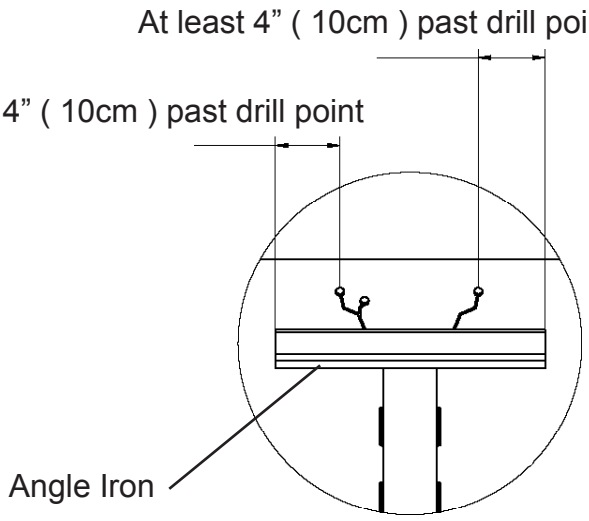




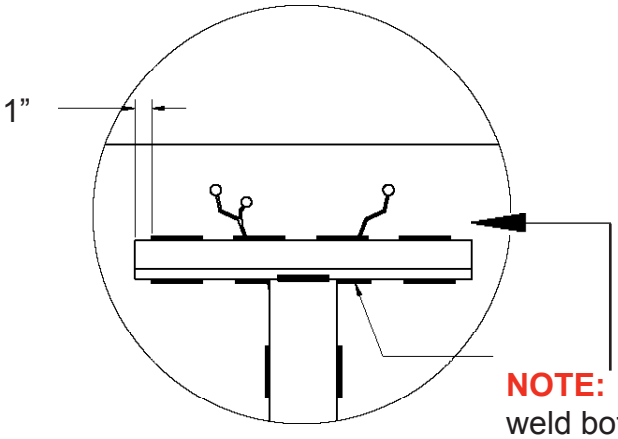
3) Drill holes thru bin skin at the end of every crack (on every branch) to prevent cracks from continuing across skin. For average size cracks use a 1/8” to 1/4” drill. Remember that it is important is that the drill size be larger than the width of the crack.



4) Once holes are drilled, weld along all the cracks to the holes and then over the entire hole. Be sure to cover the entire crack and hole to prevent further damage.

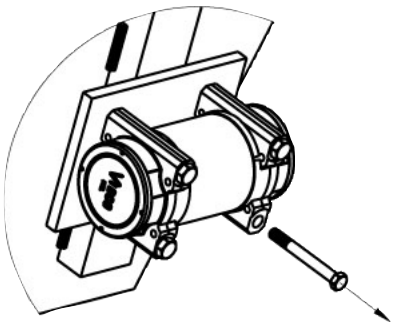


5) Choose a length of angle iron to reinforce the area of the bin where cracking occurred. To determine on the appropriate length, make sure that the angle iron goes at least 4” (10 cm) past the end of the outermost drill points / end of cracks.



6) After choosing an appropriate length of angle iron, weld it in place. Starting 1” (2.5 cm) from the end of the angle iron, weld stitches 3-6” (7.5-15 cm) long, leaving at least 3” (7.5 cm) between the stitches (**see Page xx)**. Be sure to stop welds 1” (2.5 cm) from the end of the angle iron.

NOTE: Be sure to weld both top and bottom of angle iron



7) Now you can remount vibrator on mounting plate. (Refer to Page xx for proper Vibrator Installation Instructions)

NOTE: Take an amperage reading the first time you start the vibrator after repairing cracks.

HELP! MY VIBRATOR ISN'T WORKING! TROUBLE SHOOTING SECTION:

CRACKS HAVE DEVELOPED ON BIN WALL

The improper welding of a vibrator to bin stiffeners often results in fatigue cracks in the bin. This can be repaired to prevent further cracking by properly welding stiffeners to the bin side. To accomplish this see **WELDING INSTRUCTIONS** on **Pages xxx.**

HOW DO I KNOW IF I WELDED EVERYTHING CORRECTLY?

To check if you welded everything correctly see if the mount affects the performance of the vibrator. VIBCO recommends you get a reading of the amperage draw of the vibrator BEFORE it is bolted to the channel iron on your bin. Place the vibrator on any soft material you might have (pillows, seat cushions, etc.) Turn the vibrator on and turn the control box dial to its maximum setting. Take an amperage reading and compare it to the values found on **Page xx** (or on the Serial # & Specs Tag on the unit). If the two values match, reinstall the vibrator according the instructions on Page 9 and take another amperage reading while the vibrator is running. If the amperage reading is now still too high then:

1) Check that your bolts have been tightened to the torque specified on Page xx.
2) Make sure the vibrator has been properly shimmed and stabilized.
3) If both of these conditions are satisfied, then reinspect your welds to see if there are any additional cracks. Repair them according to instructions on Pages xx.

The vibrator should not be moving excessively when in operation. If you are able to read the Serial # & Specs Tag, then the amount of motion is acceptable. If you cannot, refer to the mounting instructions to fix the problem or consult VIBCO.

HELP! MY VIBRATOR ISN'T WORKING! TROUBLE SHOOTING SECTION:

SCR MODELS

IS YOUR MATERIAL NOT MOVING?

1. Did you put your vibrator in the right location? Did you mount your vibrator properly?
2. Do you have the right vibrator for the job? Does it provide enough force? Is it the right frequency? Is it set to the maximum force? See eccentric setting info to left. Still not sure? Call VIBCO Technical Support at 800-633-0032.

VIBRATOR WON'T EVEN START?

1. Check for blown fuses in the vibrator.
2. Check power supply to unit. Are you getting the proper voltage? **NOTE: Remember that SCR units are built with a 90VDC motor powered by 115VAC power, converted at the speed control box.**
3. Check field continuity, if "open" field winding is burned or has a short, replace field. If unsure how to check continuity, call VIBCO or consult a licensed electrician.
4. Check control potentiometer. If shorted, replace.
5. Check vibrator brushes for wear. Each unit has two brushes. Refer to full detail manual at www.vibco.com for correct brush lengths. Replace if worn below minimum length.

DID THE VIBRATOR STOP RUNNING?

1. FUSES FUSES FUSES
2. Check power supply to unit.
3. Check vibrator brushes for wear. Each unit has two brushes. Refer to full detail manual at www.vibco.com for correct brush lengths. Replace if worn below minimum length.
4. Are you running the vibrator in a wet or washdown environment? Consult VIBCO about washdown rated models.
5. Are you running the vibrator in a high temperature environment? Consult VIBCO about high temp rated models. Refer to full detail instructions for proper mounting in high temp applications.
6. Are you running the vibrator continously? All VIBCO heavy duty models are rated for continuous duty but only at certain eccentric settings. See diagrams to left for proper output force settings for continuous duty.

   NOTE: *For best performance and vibrator life cycle, it is best to run them intermittently. Consult VIBCO for available timers.*
7. Are you repeatedly stopping and starting the vibrator? This can overload the vibrator. Use the following guidelines for proper timing of starts and stops:

HELP! MY VIBRATOR ISN'T WORKING! TROUBLE SHOOTING SECTION:

SCR MODELS *continued*

RUN TIME/DUTY CYCLE

All SCR Models are are rated for **CONTINUOUS DUTY** at frequency settings between 950 - 2500 vibrations per minute (VPM) - which is approx. 25 to 60 on speed control dial.

For frequencies below 950 or above 2500 VPM, rating is **INTERMITTENT DUTY**. Use 50% duty cycle where maximum run time = 30 minutes in any one hour period.

NOTE: Duty cycle can be increased by adding additional ventillation. Consult VIBCO for details.

NOTE: Proper force for full hopper can be excessive for empty or nearly empty hopper.

US HIGH FREQUENCY MODELS

VIBRATOR WON'T EVEN START?

1. Check power supply to unit. Are you getting the proper voltage? Has the thermal overload protection tripped?
2. Check vibrator brushes for wear. Each unit has two brushes. Refer to full detail manual at www.vibco.com for correct brush lengths. Replace if worn below minimum length.
3. Check field & armature continuity. If either is burned or has a short, replace. If unsure how to check continuity, call VIBCO or consult a licensed electrician.

DID THE VIBRATOR STOP RUNNING?

1. Check power supply to unit.
2. **FOR Model US-900 & 1600 ONLY** -- Has the thermal overload protection tripped? If overload protection has tripped, wait a minimum of two (2) minutes then reset by switching firmly off and then on again.
3. Is there an ununusual sound (banging) coming from the vibrator? This usually means that the vibrator is has loosened or the mounting is cracked.

   Check the vibrator mounting bolts for tightness.

   Check the mounting structure. New installations may be too weak. Reinforce mount area immediately by adding stiffeners like angle iron or channel iron.

   In existing installations look for cracks in mounting angle iron or plates. Also look for fatigued or cracked welds. Repair and reinforce immediately.

US HIGH FREQUENCY MODELS *continued*

Check vibrator and bracket connection to the form or mold. If clamps are loose or wedge is not properly inserted, it may cause vibrator to run hot and cause internal damage. Brackets may need to be adjusted or replaced.

4. Check vibrator brushes for wear. Each unit has two brushes. Refer to full detail manual at www.vibco.com for correct brush lengths. Replace if worn below minimum length.

5. Are you running the vibrator continously? All VIBCO high frequency electric models are rated for intermittent duty only.

   NOTE: Consult VIBCO for available timers to help run vibrators at proper intervals.

6. Are you repeatedly stopping and starting the vibrator? This can overload the vibrator. Use the following guidelines for proper timing of starts and stops:

RUN TIME/DUTY CYCLE

All US Models are are rated for INTERMITTENT DUTY only.

Use 50% duty cycle where maximum run time = 30 minutes in any one hour period.

For run times of 10 seconds or less, use 1:7 ratio for run time vs. off time. (example: 5 seconds on to 35 seconds off). For run times longer than 10 seconds, any cycle is acceptable.

NOTE: Duty cycle can be increased by adding additional ventillation. Consult VIBCO for details.

SFC - END MOUNT & FC - FAN COOLED MODELS

IS YOUR MATERIAL NOT MOVING?

SFC - END MOUNT & FC - FAN COOLED MODELS *continued*

HELP! MY VIBRATOR ISN'T WORKING! TROUBLE SHOOTING SECTION:

HEAVY DUTY MODELS

IS YOUR MATERIAL NOT MOVING?

1. Did you put your vibrator in the right location? Did you mount your vibrator properly?

2. Do you have the right vibrator for the job? Does it provide enough force? Do you have the vibrator set to the maximum force? (see left) Is it the right frequency? Still not sure? Call VIBCO Technical Support at 800-633-0032.

VIBRATOR WON'T EVEN START?

1. Check power supply to unit. Are you getting the proper voltage? Has the thermal overload protection tripped?

2. Check stator continuity, if "open" stator winding is burned or has a short, replace stator. If unsure how to check continuity, call VIBCO or consult a licensed electrician.

DID THE VIBRATOR STOP RUNNING?

1. Check power supply to unit.

2. Has the thermal overload protection tripped? Single phase units are supplied with overload switches. Three phase units must be connected to three phase motor starters with proper overload protection. If overload protection has tripped, wait a minimum of two (2) minutes then reset by switching firmly off and then on again.

3. Are you running the vibrator in a wet or washdown environment? Consult VIBCO about washdown rated models.

4. Are you running the vibrator in a high temperature environment? Consult VIBCO about high temp rated models. Refer to full detail instructions for proper mounting in high temp applications.

5. Are you running the vibrator continously? All VIBCO heavy duty models are rated for continuous duty but only at certain eccentric settings. See diagrams to left for proper output force settings for continuous duty.

   NOTE: *For best performance and vibrator life cycle, it is best to run them intermittently. Consult VIBCO for available timers.*

6. Are you repeatedly stopping and starting the vibrator? This can overload the vibrator. Use the following guidelines for proper timing of starts and stops:

HELP! MY VIBRATOR ISN'T WORKING! TROUBLE SHOOTING SECTION:

HEAVY DUTY MODELS *continued*

RUN TIME/DUTY CYCLE

Single phase (2P-75, 100 & 150):

For run times of 10 seconds or less, use 1:7 ratio for run time vs. off time. (example: 5 seconds on to 35 seconds off). For run times longer than 10 seconds, use 1:1 ratio.

Single phase (2P-200, 450, 800; 4P-350, 700, 1000, 1400; 6P-300, 500):

These are capacitor start models and rated for a MAXIMUM of 30 starts per hour.

Three phase:

For run times of 10 seconds or less, use 1:7 ratio for run time vs. off time. (example: 5 seconds on to 35 seconds off). For run times longer than 10 seconds, any cycle is acceptable.

NOTE: Proper force for full hopper can be excessive for empty or near empty hopper.

EXPLOSION PROOF MODELS *continued*

IS YOUR MATERIAL NOT MOVING?

1. Did you put your vibrator in the right location? Did you mount your vibrator properly?
2. Do you have the right vibrator for the job? Does it provide enough force? Do you have the vibrator set to the maximum force? (see left) Is it the right frequency? Still not sure? Call VIBCO Technical Support at 800-633-0032.

VIBRATOR WON'T EVEN START?

1. Check power supply to unit. Are you getting the proper voltage? Has the thermal overload protection tripped? See overload information below.
2. Check stator continuity, if "open" stator winding is burned or has a short, replace stator. If unsure how to check continuity, call VIBCO or consult a licensed electrician or refer to detailed instruction manual online at www.vibco.com.

HELP! MY VIBRATOR ISN'T WORKING! TROUBLE SHOOTING SECTION:

EXPLOSION PROOF MODELS *continued*

DID THE VIBRATOR STOP RUNNING?

1. Check power supply to unit.

2. Has the thermal overload protection tripped?

   Single phase units are supplied with a capacitor and relay and must be connected to a single phase motor starter with proper individual overload protection in a properly UL-rated enclosure . Is your vibrator connected correctly?

   Three phase units must be connected to three phase motor starters with proper individual overload protection. Is your vibrator connected correctly?

   If overload protection has tripped, wait a minimum of two (2) minutes then reset.

   Refer to wiring chart on PAGE XXX for details.

3. Have you checked your bin/hopper for fatigue cracks? Repair any you find as per detailed instructions in the full detail manual found online at www.vibco.com.

4. Are you running your vibrator on an empty or nearly empty bin? Proper force for full hopper can be excessive for empty or nearly empty hopper. For hopper clean-out, use vibrator intermittently only to prevent overload or burn out.

5. Are you running the vibrator continously? All VIBCO heavy duty models are rated for continuous duty but only at certain eccentric settings. See diagrams to left for proper output force settings for continuous duty.

   NOTE: *For best performance and vibrator life cycle, it is best to run them intermittently. VIBCO offers timers to help facilitate this. Consult factory for details.*

6. Are you running the vibrator in a high temperature environment? Consult VIBCO about high temp rated models. Refer to full detail instructions for proper mounting in high temp applications.

7. Are you running the vibrator in a wet or washdown environment? Consult VIBCO about washdown rated models.

8. Are you repeatedly stopping and starting the vibrator? This can overload the vibrator. Use the following guidelines for proper timing of starts and stops:

EXPLOSION PROOF MODELS *continued*

RUN TIME/DUTY CYCLE

Single phase (2PX-450; 4PX-700):

These are capacitor start models and rated for a MAXIMUM of 30 starts per hour.

Three phase (2PX-200, 450; 4PX-350, 700, 2000 & 5000)**:**

For run times of 10 seconds or less, use 1:7 ratio for run time vs. off time. (example: 5 seconds on to 35 seconds off). For run times longer than 10 seconds, any cycle is acceptable.

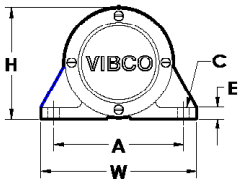
TECHNICAL DATA & DIMENSIONS - MODEL SCR

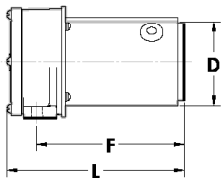
Technical Data

Model	Force (Impact) Adjustable lbs.	N	Amp.	* Volt	Ph.	Vibrations per Minute (VPM) Cont. Duty	Int. Duty	Weight lbs.	kg.	dB***
SCR-50	50	223	1.3	115/230	1	950-2500	2500-4000	8	4	71
SCR-60 ++	60	267	1.3	115/230	1	950-2500	2500-4000	5 & 8 **	2/4	68
SCR-100	100	445	1.3	115/230	1	950-2500	2500-4000	11	5	68
SCR-200	200	890	2.6	115/230	1	950-2500	2500-4000	12	6	70
SCR-300	300	1335	1.7	115/230	1	950-2500	2500-4000	16	7	70
SCR-350	350	1558	2.6	115/230	1	950-2500	2500-4000	20	9	71
SCRW-400 ++	400	1780	1.7	115/230	1	950-2500	2500-4000	12	6	70
SCR-400	400	1780	1.7	115/230	1	950-2500	2500-4000	16	7	70
SCR-500	500	2225	3.5	115/230	1	950-2500	2500-4000	43	20	70
SCR-1000	1000	4449	6.5	115/230	1	950-2500	2500-4000	58	26	72

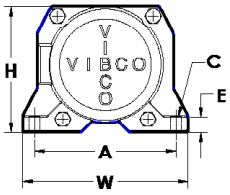
* 50 or 60Hz ** 5 lbs aluminum; 8 lbs cast iron *** decibel at 3 ft (1 meter on A-Scale) ++ Waterlight N - Centrifugal force in Newton

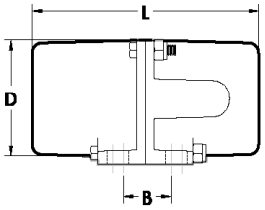
NOTE: Dimensions and data subject to change without notice.



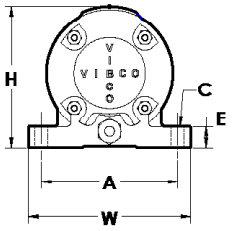


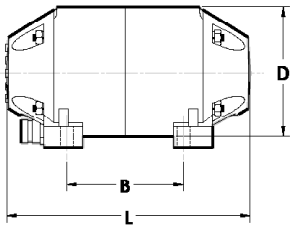
SCR-50 & SCR-100



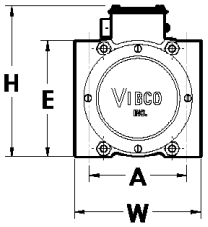


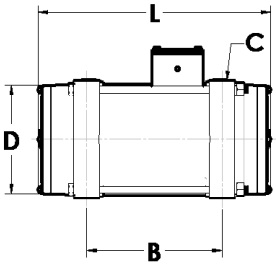
SCR-60



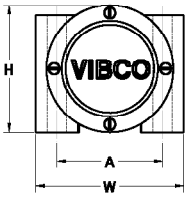


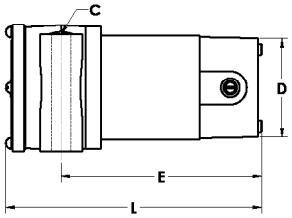
SCRW-400





SCR-300, SCR-400, SCR-500 & SCR-1000





SCR-200 & SCR-350

Dimensions

Model	A Inch	A mm	B Inch	B mm	C* Inch	C* mm	L Inch	L mm	W Inch	W mm	H Inch	H mm	D Inch	D mm	E Inch	E mm
SCR-50	4	102	-	-	3/8	10	5 7/8	149	5	127	3 5/8	92	3	76	3 5/16	84
SCR-60	3 5/8	92	1 5/16	33	5/16	8	6 3/8	162	4 1/2	114	3 1/4	83	3	76	-	-
SCR-100	5	127	-	-	3/8	10	6 3/4	171	6	152	4 1/4	108	5	127	-	-
SCR-200	3 1/2	89	-	-	1/2	12	8 3/16	208	4 7/8	124	4 1/8	105	5	127	6 1/2	165
SCR-300	3	76	5 3/4	146	5/16	8	8 1/2	216	4 1/8	105	5	127	3 9/16	90	6 1/2	165
SCR-350	4 1/2	114	-	-	1/2	12	8 1/4	210	5 5/8	143	5 1/4	133	5 1/16	129	-	-
SCRW-400	5 1/4	133	4 1/4	108	7/16	11	9	229	6 1/4	159	5 3/8	137	-	-	-	-
SCR-400	3	76	5 3/4	146	5/16	8	9	229	4 1/8	105	5	127	3 9/16	90	6 1/2	165
SCR-500	4 1/2	114	8 15/16	227	1/2	12	13 3/16	335	5 3/4	146	6 1/2	165	5 1/16	129	-	-
SCR-1000	5	127	9 3/8	238	5/8	16	14 1/4	362	6 1/2	165	7 1/2	191	6	152	-	-

* Bolt Size * Dimensions and data subject to change without notice.

PHONE: 800-633-0032 FAX: 401-539-2584
www.vibco.com vibrators@vibco.com

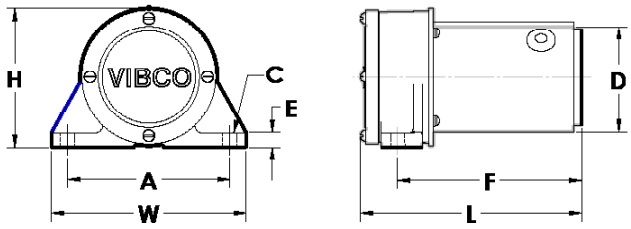
TECHNICAL DATA & DIMENSIONS - MODEL US

Technical Data

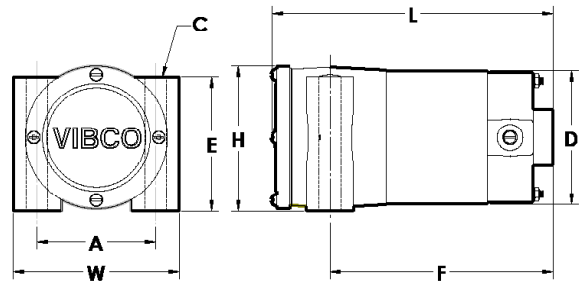
MODEL	Force Impact lbs.	Force Impact N+	Volt	Amps **	PH.	Speed VPM	Wt. lbs.	Wt. kg.	dB*	DUTY CYCLE
US-100	200	890	115 AC/DC	0.65	1	10000	4	2	78	INT.
US-450	450	2002	115 AC/DC	3	1	9000	13	6	80	INT.
US-700	1250	5560	115 AC/DC	3.5	1	8000	20	9	80	INT.
US-900	1500	6672	115 AC/DC	4.5	1	10000	18	8	85	INT.
US-1600	2700	12010	115 AC/DC	5	1	9000	20	9	85	INT.

+N = Centrifugal force in Newtons *Decibel on A-scale at 3' (1 meter) **5 lbs. (Aluminum)

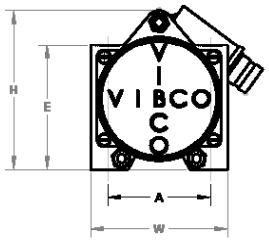
**Amps shown for 115 volt AC (240 volt amps are 1/2 of 120 volts)

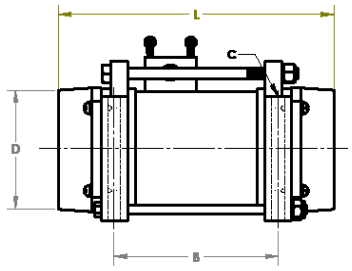


US-100

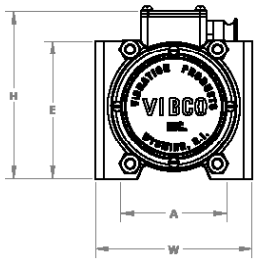


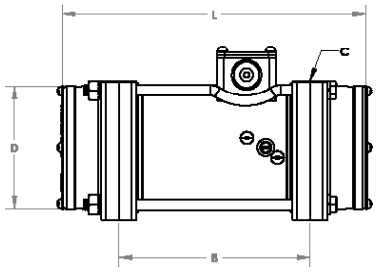
US-450 & US-700





US-900





US-1600

Dimensions

Model	A inch	A mm	B inch	B mm	C * inch	C * mm	L inch	L mm	W inch	W mm	H inch	H mm	D inch	D mm	E inch	E mm	F inch	F mm
US-100	5	127	-	-	3/8	10	6 3/4	171	6	152	4 1/4	108	3 3/8	86	7/16	11	5 3/8	137
US-450	3 1/2	89	-	-	1/2	13	8 1/4	210	4 7/8	124	4 1/8	105	4	102	3 7/8	98	6 1/2	165
US-700	4 7/16	113	-	-	1/2	13	7 3/4	197	5 1/2	140	5 1/4	133	5 1/16	129	5 1/16	129	5 5/8	143
US-900	3 1/2	89	6 5/8	168	1/2	13	11 1/8	283	5 1/2	140	6 1/4	159	4	102	4 5/16	110	-	-
US-1600	4 1/2	114	7	178	1/2	13	11 1/4	286	5 1/2	140	6 1/4	159	4 1/2	114	5 1/8	130	-	-

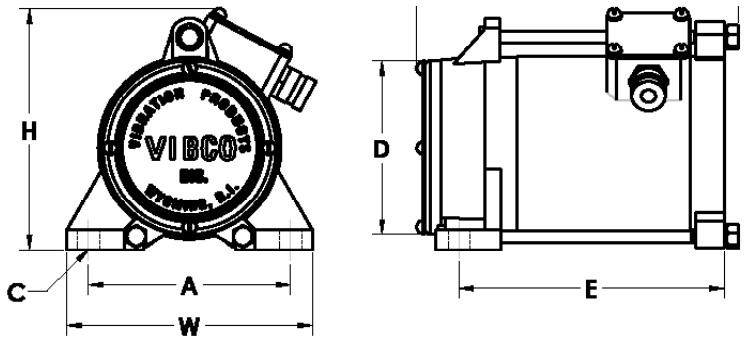
* Bolt Size

TECHNICAL DATA & DIMENSIONS - MODEL SFC & FC

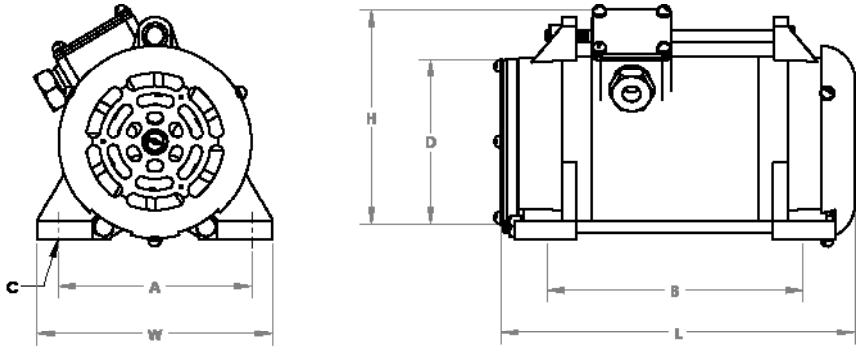
Technical Data

Model	Ph.	Amp.	Volt***	V.P.M.**	Force (Impact) lbs./N Adjustable Min. lbs.	Min. N	Norm. lbs.	Norm. N	Max. lbs.	Max. N	dB*	Wt. lbs.	Wt. kg.
SFC-100	1 3	4.2/2.1 1.6/.8	115/230 230/460	3600	60	267	100	445	150	667	60	25 21	11.3 9.5
SFC-300	1 3	4.2/2.1 1.5/.8	115/230 230/460	3600	100	445	220	979	300	1334	62	27 23	12.2 10.4
FC-100	3 3	4.2/2.0 1.6/.8	115/230 230/460	3600	100	445	220	979	300	1334	62	34 31	15.4 14.1
FC-400	1 3	4.2/2.1 1.6/.8	115/230 230/460	3600	150	667	300	1334	450	2002	64	35 32	15.9 14.5

* dB at 3' (1 meter) on A-scale
** 1800 V.P.M. (Vibrations Per Minute) available
*** 575 volt available
N = centrifugal force in Newtons



SFC-100 & SFC-300



FC-100 & FC-400

Dimensions

Model	A inch	A mm	B inch	B mm	C* inch	C* mm	L inch	L mm	W inch	W mm	H inch	H mm	D inch	D mm	E inch	E mm
SFC	5 1/4	133	-	-	1/2	13	8 1/4	210	6 1/2	165	6 3/4	171	4 1/2	114	7	178
FC	5 1/4	133	7 1/2	191	1/2	13	10	254	7 1/2	191	6 3/4	171	5 1/8	130	-	-

* Bolt Size

TECHNICAL DATA & DIMENSIONS - MODEL HEAVY DUTY

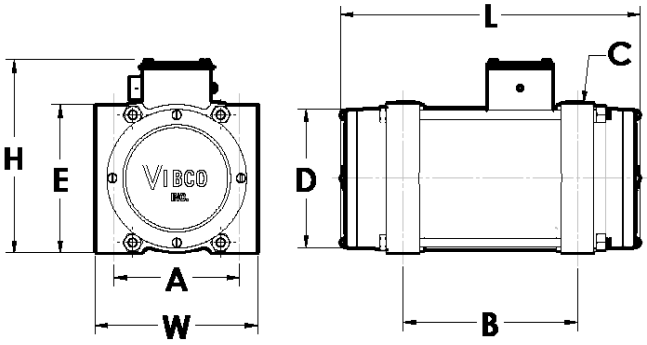
Technical Data

Model	PHASE	1 PHASE Amperes at Volt 115/230	3 PHASES Amperes at Volt 230/460	3 PHASES Amperes at Volt 575	H.P.	Force (Impact) lbs./N* Adjustable MIN lbs.	MIN N	lbs.	N	MAX lbs.	MAX N	**dB	Weight*** lbs.	Weight*** kg.
3800 VIBRATIONS PER MINUTE - 2 POLE														
2P-75	1&3	.5/.25	.2/.1	-	1/5	50	222	75	334	100	445	60	12	6
2P-100	1&3	.5/.25	.2/.1	-	1/5	100	445	150	667	175	778	63	12	6
2P-150	1&3	1.8/.9	.6/.3	.12	1/4	130	578	175	778	250	1112	63	26/25	12/11
2P-200	1&3	3/1.5	1/.5	.45	1/3	180	801	325	1446	400	1779	62	35/33	16/15
2P-450	1&3	5/2.5	1.2/.6	.5	1/2	100	445	680	3025	1100	4893	64	55 (46)	25 (21)
2P-800	1&3	8/4	2/1	.8	3/4	100	445	1000	4448	1750	7784	70	85/80	39/36
2P-1700	3	-	3/1.5	1.2	1 1/2	600	2669	1500	6672	2500	11120	72	90	41
2P-2500	3	-	5/2.5	3.0	2	500	2224	1650	7339	3000	13344	73	105	48
2P-3500♦	3	-	5/2.5	1.7	2	500	2224	1650	7339	3000	13344	75	105	48
2P-4500♦	3	-	5.5/2.8	3.1	2	2200	9786	3450	15346	5000	22240	76	110	50
2P-5500♦	3	-	8/4	3.2	3	500	2224	3300	14678	5600	24909	72	220	100
♦ Special Bearings for Concrete Applications					1800 VIBRATIONS PER MINUTE - 4 POLE									
4P-350	1&3	4/2	1/.5	.3	1/4	50	222	100	445	200	890	60	36/34	16/15
4P-600	1&3	4.2/2.1	1/.5	.3	3/8	150	667	250	1112	400	1779	60	40/38	18/17
4P-700	1&3	6/3	1.2/.6	.5	1/2	100	445	300	1334	500	2224	63	60/55	27/25
4P-1000	1&3	6.2/3.1	1.2/.6	.5	1/2	250	1112	500	2224	800	3558	63	54/43	25/20
4P-1400	1*&3	7*	3.5/1.8	1.2	1	400	1779	700	3114	1100	4893	70	100/95	46/43
4P-2000	3	-	4/2	1.6	1 1/2	750	3336	1100	4893	1500	6672	72	98	45
4P-3000	3	-	6/3	2.4	2 1/2	1500	6672	2200	9786	3000	13344	74	200	91
4P-5000	3	-	6/3	2.4	3	1550	6894	3900	17347	4500	20016	75	225	102
4P-10000	3	-	10/5	4	5	4560	20283	8000	35584	10000	44480	76	460	209
					1200 VIBRATIONS PER MINUTE - 6 POLE									
6P-300	1&3	4/2	1.2/.6	.5	1/4	50	222	125	556	250	1112	60	60/55	27/25
6P-500	1&3	4.2/2.1	1.6/.8	.5	1/4	100	445	200	890	400	1779	60	62/58	28/26
6P-1000	3	-	4/2	1.6	1	350	1557	450	2002	700	3114	72	98	45
6P-1500	3	-	6/3	2.4	1 1/2	700	3114	1000	4448	1500	6672	74	200	91
6P-2500	3	-	6/3	2.4	2	700	3114	1250	5560	2000	8896	75	225	102
6P-5000	3	-	10/5	4	3	2000	8896	3000	13344	4500	20016	76	460	209
					900 VIBRATIONS PER MINUTE - 8 POLE									
8P-500	3	-	4/2	1.6	1/4	180	801	250	1112	400	1779	65	98	45
8P-750	3	-	6/3	2.4	1/4	400	1779	575	2558	800	3558	74	200	91
8P-1250	3	-	6/3	2.4	1	400	1779	700	3114	1250	5560	75	225	102
8P-2500	3	-	10/5	4	1 1/2	1150	5115	1800	8006	2500	11120	76	460	209

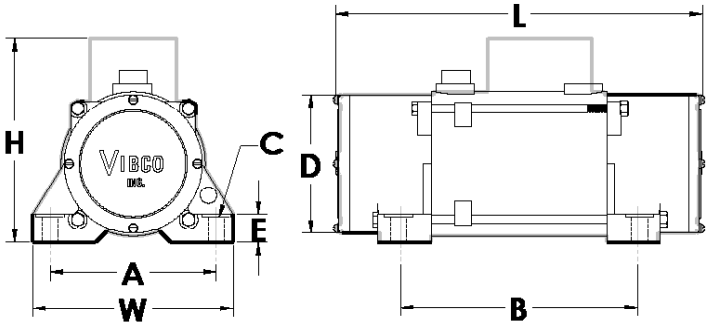
* Consult factory for availability
Note: Most Vibrators available in both 50 & 60 cycles. 115 to 575 volt.
** Decibel at 3' (1 meter) on A scale
*** First figure 1 phase units, the other 3 phase units
+ N = Centrifuged Force in Newton

2P-75, 2P-100 & 2P-150

TECHNICAL DATA & DIMENSIONS - MODEL HEAVY DUTY *continued*



2P-200, 2P-350, 2P-450, 4P-700, 2P-800, 2P-1700, 2P-2500, 2P-3500, 4P-1000, 4P-2000, 4P-5000, 6P-300, 6P-500, 6P-1000 & 8P-500



4P-10000

Dimensions

Model	PHASE	A		B		C*		L		W		H		D		E	
		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
2P-75	1&3	3	76	4-11/16	119	5/16	8	7-7/8	200	4-1/8	105	5	127	3-9/16	90	4-1/8	105
2P-100	1&3	3	76	4-13/16	122	5/16	8	8-3/16	208	4-1/8	105	5	127	3-9/16	90	4-1/8	105
2P-150	1&3	4-1/2	114	7	178	1/2	13	11-1/2	292	5-3/4	146	6-3/4	171	5	127	5	127
2P-200	1&3	4-1/2	114	7	178	1/2	13	11-1/2	292	5-3/4	146	6-3/4	171	5	127	5	127
4P-350	1&3	4-1/2	114	7	178	1/2	13	11-1/2	292	5-3/4	146	6-3/4	171	5	127	5	127
4P-600	1&3	4-1/2	114	7-7/8	200	1/2	13	13	330	5-3/4	146	6-3/4	171	5	127	5	127
2P-450	1	5	127	8-3/8	213	5/8	16	13-1/2	343	6-1/2	165	7-1/2	191	6	152	6	152
	3	5	127	7-5/8	194	5/8	16	12-3/8	314	6-1/2	165	7-1/2	191	6	152	6	152
2PS-450	1	5	127	7-5/8	194	5/8	16	12-3/8	314	6-1/2	165	7-1/2	191	6	152	6	152
	3	5	127	6-7/8	175	5/8	16	11-1/4	286	6-1/2	165	7-1/2	191	6	152	6	152
4P-700	1&3	5	127	8-3/8	213	5/8	16	13-1/8	333	6-1/2	165	7-1/2	191	6	152	6	152
4P-1000	1&3	5	127	8-3/8	213	5/8	16	15-1/2	394	6-1/2	165	7-5/8	194	6	152	6	152
6P-500	1&3	5	127	8-3/8	213	5/8	16	15-1/2	394	6-1/2	165	7-5/8	194	6	152	6	152
2P-800	1	5-1/2	140	9-5/8	244	5/8	16	15-1/4	387	7-1/2	191	8-1/2	216	7	178	7	178
	3	5-1/2	140	8-5/8	219	5/8	16	14-3/8	365	7-1/2	191	8-1/2	216	7	178	7	178
2P-1700	3	5-1/2	140	10-13/16	259	5/8	16	16-1/2	419	7-1/2	191	8-1/2	216	7	178	7	178
4P-1400	1&3	5-1/2	140	10-13/16	259	5/8	16	16-1/2	419	7-1/2	191	8-1/2	216	7	178	7	178
2P-2500	3	5-1/2	140	11-5/8	295	5/8	16	17-1/2	445	7-1/2	191	8-1/2	216	7	178	7	178
2P-3500	3	5-1/2	140	11-5/8	295	5/8	16	17-1/2	445	7-1/2	191	8-1/2	216	7	178	7	178
2P-4500	3	5-1/2	140	11-5/8	295	5/8	16	18-1/2	470	7-1/2	191	8-1/2	216	7	178	7	178
2P-5500	3	7-7/8	200	12-13/16	325	1	25	22-1/4	565	10-1/4	260	10-1/2	267	8-7/8	225	8-7/8	225
4P-2000	3	5-1/2	140	10-13/16	275	1	25	18	457	7-1/4	184	8-1/2	216	7	178	7	178
6P-1000	3	5-1/2	140	10-13/16	275	1	25	18	457	7-1/4	184	8-1/2	216	7	178	7	178
8P-500	3	5-1/2	140	10-13/16	275	1	25	18	457	7-1/4	184	8-1/2	216	7	178	7	178
4P-3000	3	7-7/8	200	12-3/4	324	1	25	22-1/2	572	10-1/4	260	10-1/2	267	8-7/8	225	8-7/8	225
6P-1500	3	7-7/8	200	12-3/4	324	1	25	22-1/2	572	10-1/4	260	10-1/2	267	8-7/8	225	8-7/8	225
8P-750	3	7-7/8	200	12-3/4	324	1	25	22-1/2	572	10-1/4	260	10-1/2	267	8-7/8	225	8-7/8	225
4P-5000	3	7-7/8	200	12-13/16	325	1	25	24	610	10-1/4	260	10-1/2	267	8-7/8	225	8-7/8	225
6P-2500	3	7-7/8	200	12-13/16	325	1	25	24	610	10-1/4	260	10-1/2	267	8-7/8	225	8-7/8	225
8P-1250	3	7-7/8	200	12-13/16	325	1	25	24	610	10-1/4	260	10-1/2	267	8-7/8	225	8-7/8	225
4P-10000	3	12-5/8	321	15-1/2	394	1-1/4	32	29-3/4	756	15-5/8	397	13	330	10-3/4	273	2	51
6P-5000	3	12-5/8	321	15-1/2	394	1-1/4	32	29-3/4	756	15-5/8	397	13	330	10-3/4	273	2	51
8P-2500	3	12-5/8	321	15-1/2	394	1-1/4	32	29-3/4	756	15-5/8	397	13	330	10-3/4	273	2	51

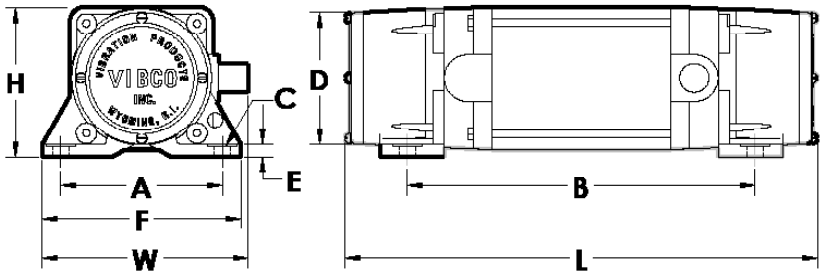
*Bolt Size

TECHNICAL DATA & DIMENSIONS - MODEL EXPLOSION PROOF

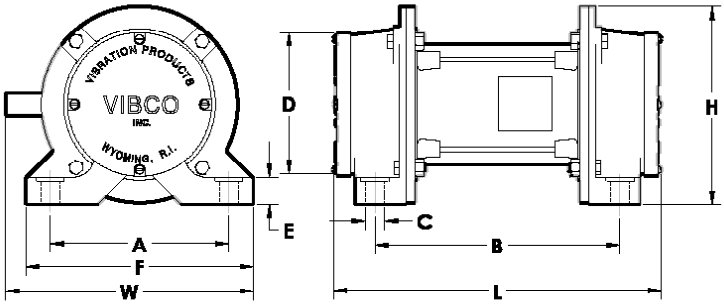
Technical Data

Model	Ph.	Amp.	VOLT	HP	VPM	Force (Impact) lbs./N Adjustable Min. lbs.	Min. N	Norm. lbs.	Norm. N	Max. lbs.	Max. N	dB***	WEIGHT lbs.	WEIGHT kg.	TEMP CODES	CLASS
2PX-200	3	1.4/0.7	230/460	1/3	3450	150	667.2	300	1334	450	2001.6	60	20	9	T3C	CLASS I GRP C&D
2PX-450	1	5.6/2.8	115/230	1/3	3450	110	489.28	450	2002	900	4003.2	62	56	25	T3C	CLASS I GRP C&D
	3	1.6/.8	230/460	1/2												
	3	0.65	575	1/2												
4PX-350	3	0.7	460	1/3	1725	100	444.8	200	889.6	300	1334.4	62	22	10	T3C	CLASS I GRP C&D
4PX-700	1	5.6/1.8	115/230	1/4	1725	300	1334.4	500	2224	700	3113.6	64	58	26	T3	CLASS I GRP C&D
	3	1.4/.7	230/460	1/2												
4PX-2000	3	3.2/1.6	230/460	3/4	1725	625	2780	1200	5338	2000	8896	72	130	59	T3C	CLASS I GRP D and CLASS II GRP F&G
	3		575													
4PX-5000	3	5.2/2.6	230/460		1725	1700	7561.6	4800	21350	6500	28912	75	240	109		CLASS GRP
			575													

*** decibel at 3 ft (1 meter) on A-Scale



2PX-200, 2PX-450,
4PX-350 & 4PX-700



4PX-2000 & 4PX-5000

Dimensions

Model	A Inch	A mm	B Inch	B mm	C * Inch	C * mm	L Inch	L mm	W Inch	W mm	H Inch	H mm	D Inch	D mm	E Inch	E mm	F Inch	F mm
2PX-200	5 1/2	140	11 3/4	298	2/4	13	14 7/8	378	10 1/8	257	5 1/4	133	4 1/2	114	1/2	13	6 3/4	171
2PX-450	6 5/8	168	9 3/4	248	5/8	16	14 1/2	368	11 1/4	286	6 1/8	156	5 1/2	140	1 3/16	30	8	203
4PX-350	5 1/2	140	11 3/4	298	1/2	13	16 7/8	429	10 1/8	257	5 1/4	133	4 1/2	114	1/2	13	6 3/4	171
4PX-700	6 5/8	168	9 3/4	248	5/8	16	14 1/2	368	11 1/4	286	6 1/8	156	5 1/2	140	1 3/16	30	8	203
4PX-2000	10	254	13 11/16	348	1	25	18	457	13 7/8	352	11 1/8	283	7 7/8	200	1 1/2	38	12 3/4	324
4PX-5000	13	330	17	432	1	25	20 1/2	521	15 7/8	403	14 1/2	368	10 3/4	273	1 1/2	38	15 3/4	400

* Ball Size

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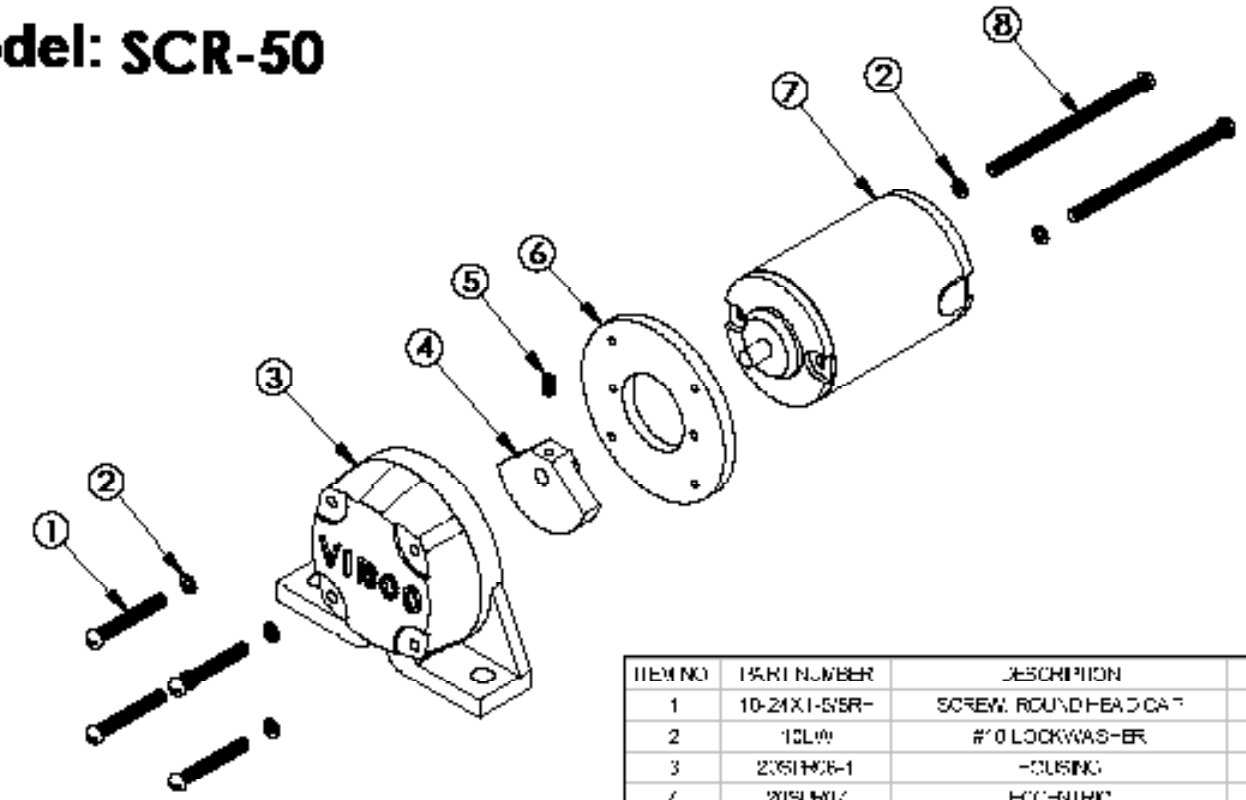
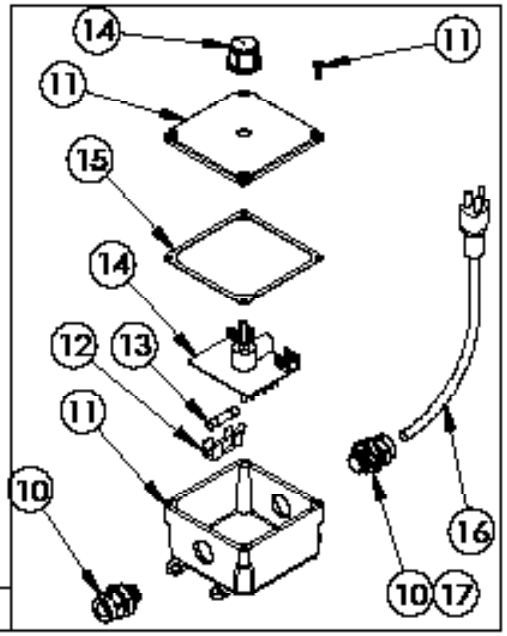
Model: SCR-50





ITEM NO	PART NUMBER	DESCRIPTION	No. Req.
1	10-24X1-5/8R-	SCREW, ROUND HEAD CAT	4
2	10LW	#10 LOCKWASHER	6
3	20SHC6-1	HOUSING	1
4	20SHC7	ECCENTRIC	1
5	10X24X3/8SS	SCREW, SOCKET SET	1
6	50SCR02	MOTOR PLATE	1
7	6DCB07-1-1	MOTOR ASSEMBLY	1
8	10-24X3-3/4R-	SCREW, ROUND HEAD MACHINE	2
9	20SCR05	SWITCH BOX	1
10	3201	CONNECTOR	2
11	20SCR02	PLASTIC BOX AND COVER, SCREW	1
12	20SCR07	FUSEHOLDER	1
13	MDL-2-1/4	FUSE-250V	1
14	PN358	PANEL WITH KNOB AND NUT	1
15	20SCR04-11	COVER GASKET	1
16	16-3MP	CABLE AND PLUG	1
17	3201N	CONNECTOR BACKNUT	1

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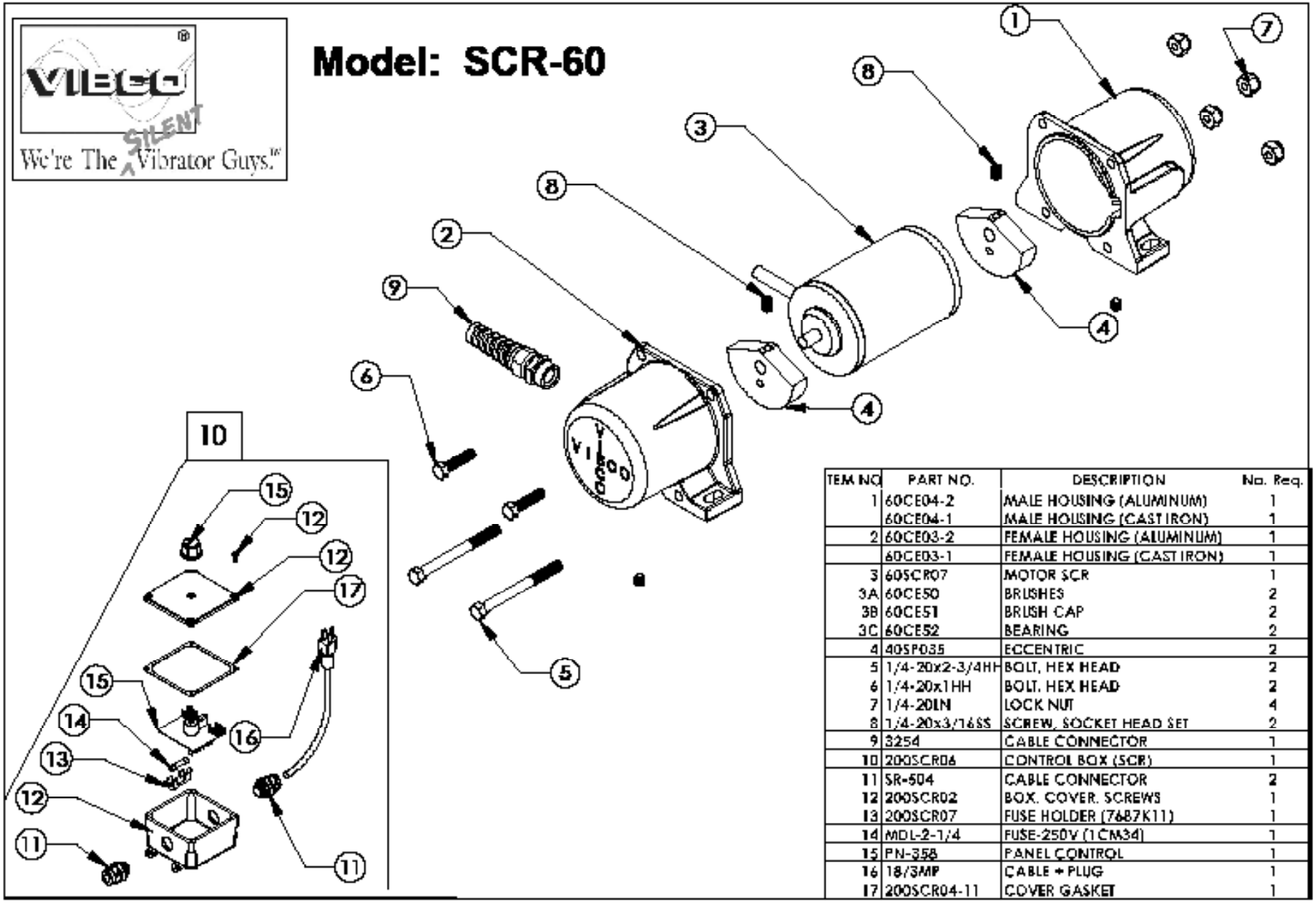
Model: SCR-60



ITEM NO	PART NO.	DESCRIPTION	No. Req.
1	60CE04-2	MALE HOUSING (ALUMINUM)	1
	60CE04-1	MALE HOUSING (CAST IRON)	1
2	60CE03-2	FEMALE HOUSING (ALUMINUM)	1
	60CE03-1	FEMALE HOUSING (CAST IRON)	1
3	60SCR07	MOTOR SCR	1
3A	60CE50	BRUSHES	2
3B	60CE51	BRUSH CAP	2
3C	60CE52	BEARING	2
4	40SP035	ECCENTRIC	2
5	1/4-20x2-3/4HH	BOLT, HEX HEAD	2
6	1/4-20x1HH	BOLT, HEX HEAD	2
7	1/4-20LN	LOCK NUT	4
8	1/4-20x3/16SS	SCREW, SOCKET HEAD SET	2
9	3254	CABLE CONNECTOR	1
10	200SCR06	CONTROL BOX (SCR)	1
11	SR-504	CABLE CONNECTOR	2
12	200SCR02	BOX, COVER, SCREWS	1
13	200SCR07	FUSE HOLDER (7687K11)	1
14	MDL-2-1/4	FUSE-250V (1CM34)	1
15	PN-358	PANEL CONTROL	1
16	18/3MP	CABLE + PLUG	1
17	200SCR04-11	COVER GASKET	1

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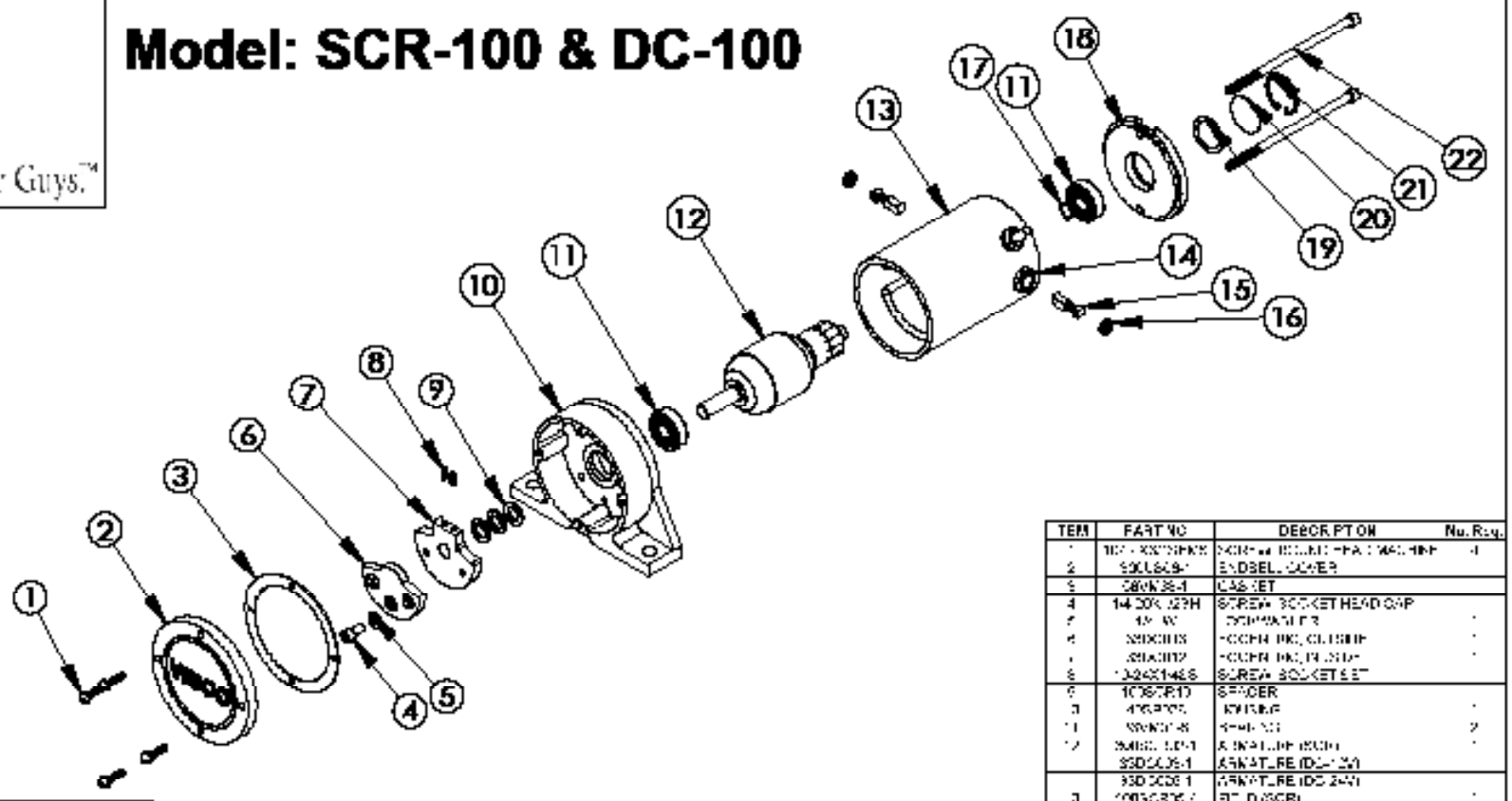
Model: SCR-100 & DC-100



ITEM	PART NO	DESCRIPTION	No. Req.
*	[illegible]	SCREW, SOCKET HEAD CAP	4
2	59CL64B-*	END BELL COVER	
3	08WK36-1	GASKET	
4	144.09K.029H	SCREW, SOCKET HEAD CAP	
5	[illegible]	WASHER	*
6	59DC015	SPACER, DC, OUTSIDE	*
7	59DC013	SPACER, DC, INSIDE	*
8	1424X146.8	SCREW, SOCKET SET	
9	1C36CR10	SPACER	
10	47B.P05	BEARING	*
11	59WK01-8	SEAL, OIL	2
12	59ARC.DP-1	ARMATURE (SCR)	*
	59DCC36-1	ARMATURE (DC-24V)	
	59DCC36-1	ARMATURE (DC-24V)	
13	[illegible]	FIELD (SCR)	*
	59DC015	FIELD (DC-12V & 24V)	*
14	[illegible]	BRUSH HOLDER (SCR)	2
	59DC015	BRUSH HOLDER (DC-12V & 24V)	2
15	[illegible]	BRUSHES (SCR)	2
	[illegible]	BRUSHES (DC-12V & 24V)	2
16	[illegible]	BRUSH SPRING (SCR)	2
	59DC016	BRUSH SPRING (DC-12V & 24V)	2
17	[illegible]	BEARING	*
18	1C36CR04	END COVER	
19	[illegible]	FLAT WASHER	*
20	[illegible]	SOLID WASHER	*
21	[illegible]	O-RING	*
22	[illegible]	SCREW, SOCKET HEAD CAP	
23	2C36CR09	SWITCH BOX	
24	323	CABLE CONNECTOR	2
25	[illegible]	CONNECTOR BACKNUT	2
26	[illegible]	PLASTIC DISC COVER (SCR & DC)	*
27	[illegible]	FUSE HOLDER	*
28	[illegible]	FUSE 20A	
29	[illegible]	PANEL WITH KNOB	*
30	2C36CR04.1*	COVER GASKET	*
31	[illegible]	CABLE W/PLUG	*

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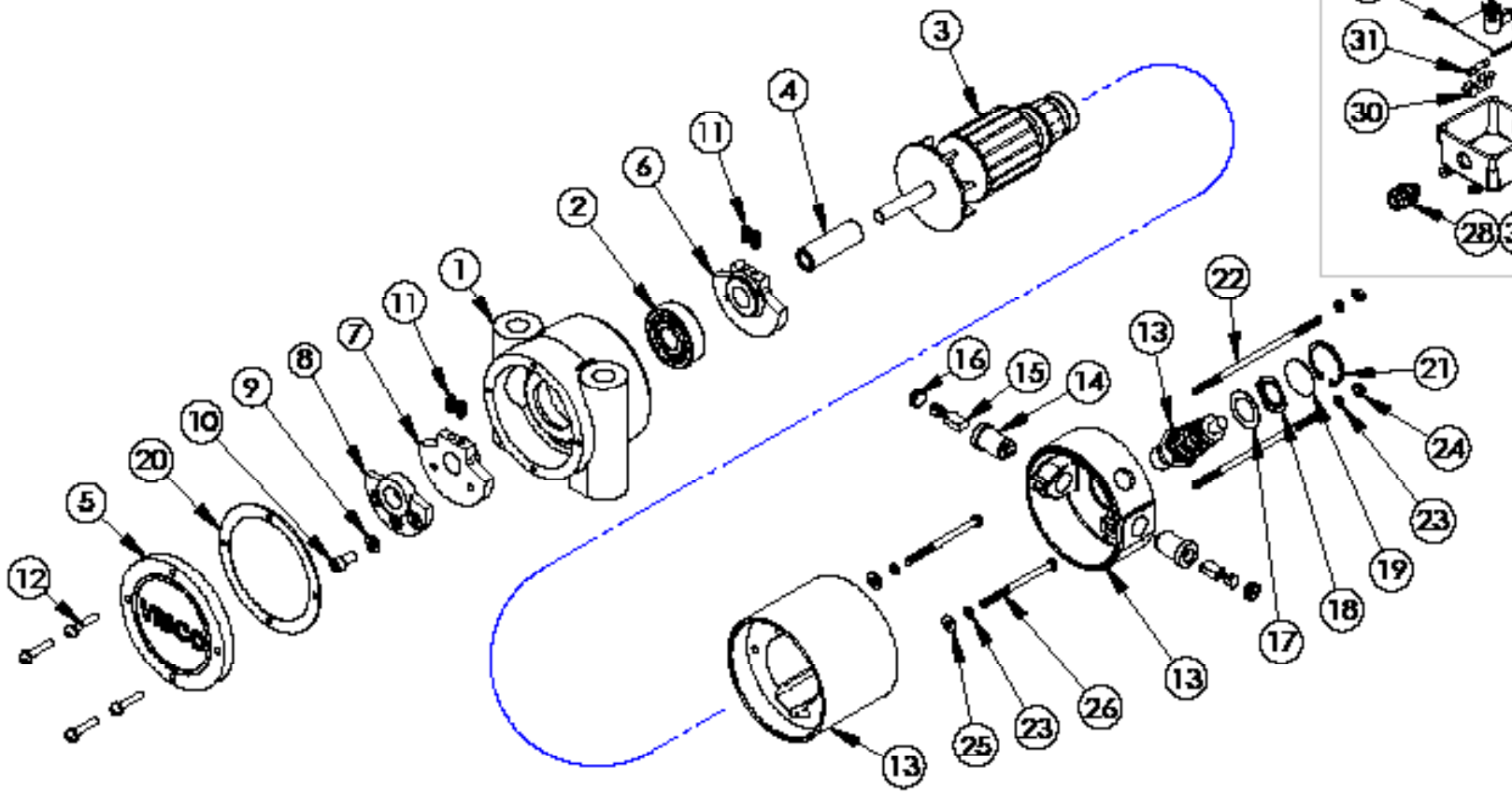
Model: SCR-200



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MODEL : SCR-200

ITEM NO.	PART NO.	DESCRIPTION	No. Req.
1	300US03-1	ENDBELL	1
2	6303LLU C3	BEARING	1
3	200SCR01 27	ARMATURE	1
4	300US 3-2	SHAFT BUSHING	1
5	300US06-1	ENDBELL COVER	1
6	900US34	ECCENTRIC, INSIDE	1
7	900US35	ECCENTRIC, OUTSIDE	1
8	900US36	ECCENTRIC, NUMBERED	1
9	1/4LW	LOCK WASHER	1
10	1/4-20x1/2SH	SCREW, SOCKET HEAD CAP	1
11	1/4-20x1/2SS	SCREW, SOCKET SET	4
12	10-24x3/4SEMS	SCREW, ROUND HEAD MACHINE W/LW&FA	4
13 *	200SCR01-2S	FIELD & END CAP ASSEMBLY	1
14 *	300US59-14	BRUSH HOLDER	2
15	300US59-15	BRUSHES-SCR-100	2
16	300US59-13	BRUSH CAPS	2
17	300US59-21	WASHER	1
18	300US59-22	SPRING WASHER	1
19	300US59-23	SOLID FLAT WASHER	1
20	S6VM39-1	GASKET	1
21	5000-125	SNAP RING	1
22	200SCR01-12	DOUBLE ENDED STUD (10-24x3)	2
23	10LW	LOCK WASHER	4
24	10 24HN	HEX NUT	2
25	10FW	FLAT WASHER	2
26	10-24x2-3/4RH	SCREW, ROUND HEAD MACHINE	2
27	200SCR06	SWITCH BOX	1
28	3201	CONNECTOR	2
29	200SCR02	BOX, COVER, SCREWS	1
30	200SCR07	FUSE HOLDER (7687K11)	1
31	MDL-2-1/2	FUSE-250V (4X160)	1
32	PN-358	PANEL CONTROL	1
33	200SCR04-11	COVER GASKET	1
34	18/3MP	CABLE + PLUG	1
35	3201N	CONNECTOR BACKNUT	2
*		COMES WITH 200SCR01 28 FIELD & CAP ASSM.	-

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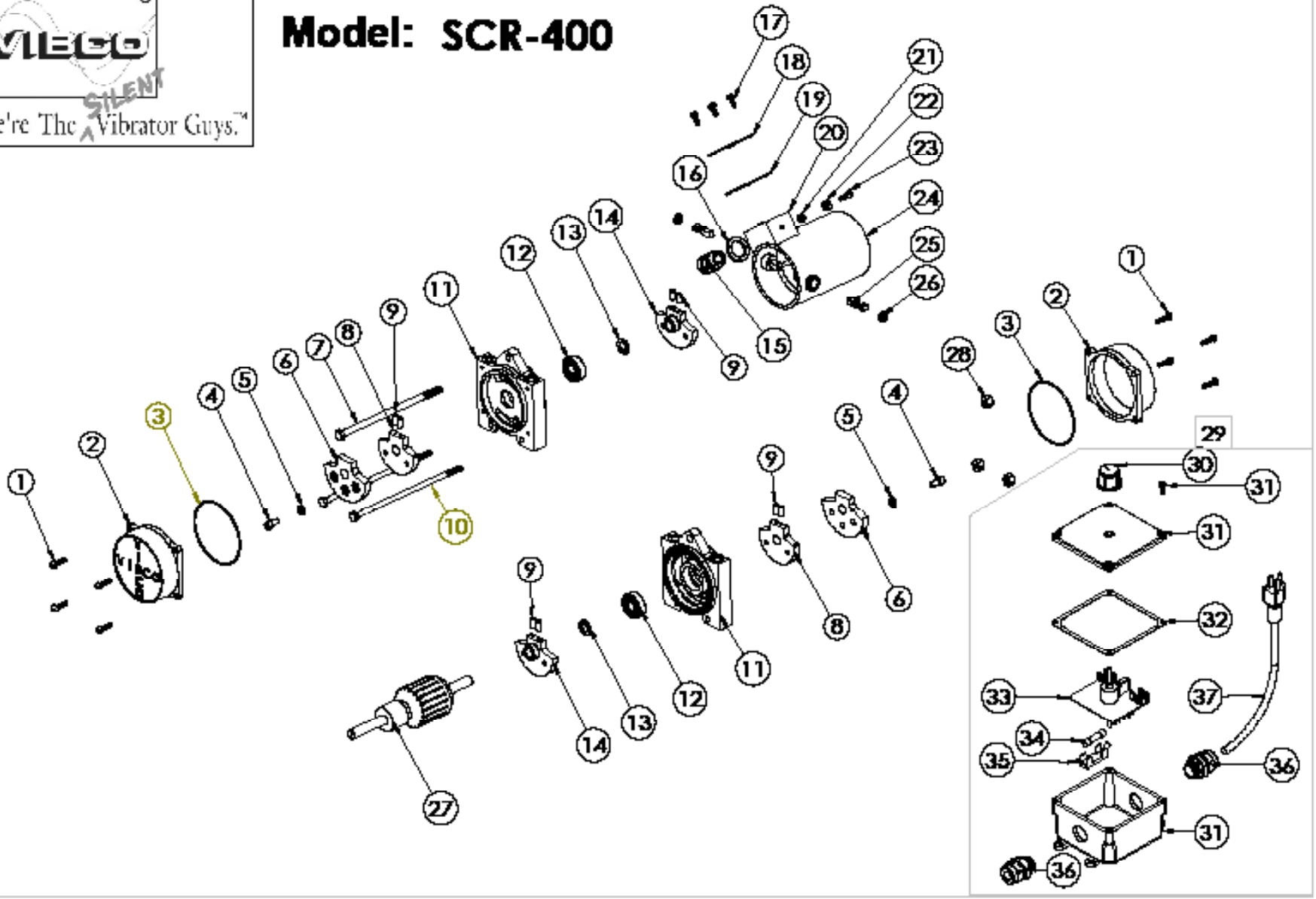
Model: SCR-400



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MODEL : SCR-400

Item No.	Part No.	Description	No Req.
1	10-24X9/16RH	SCREW, ROUND HEAD MACHINE	8
2	33DC007	END COVER	2
3	O41	O-RING	2
4	1/4-20X1/2SH	SCREW, SOCKET HEAD CAP	2
5	1/4LW	LOCKWASHER	2
6	33DC020	ADJ. ECCENTRIC	2
7	5/16-18X6-1/2HH	SCREW, HEX HEAD CAP	1
8	33DC012	ECCENTRIC, INSIDE	2
9	1/4-20X1/2SS	SCREW, SOCKET SET	8
10	1/4-20X7HH	SCREW, HEX HEAD CAP	2
11	33DC004	HOUSING	2
12	6201LLB-C3	BEARINGS	2
13	100SCR10	SPACER	2
14	33DC021	FIXED ECCENTRIC	2
15	SE-1740	CABLE CONNECTOR	1
16	5262	1/2 IN. SEALING RING	1
17	8-32X1/2SEMS	SCREW, RD HD MACHINE W/LW & PATC	4
18	33VM21-2	CONDUIT BOX COVER	1
19	33VM21-1	COVER GASKET	1
20	33VM20	CONDUIT BOX	1
21	10-24HN	HEX NUT	1
22	10LW	#10 LOCKWASHER	1
23	10-24X3/8RH	SCREW, ROUND HEAD MACHINE	1
24	100SCR05-4	FIELD SCR	1
25	100SCR05-2	BRUSHES (SCR-100)	2
26	100SCR05-3	BRUSH CAP	2
27	300SCR02	ARMATURE 90VOLT DC (SCR-300/400)	1
28	5/16-18LN	LOCKNUT	3
29	200SCR06	SWITCH BOX	1
30	PN-358	CONTROL PANEL	1
31	200SCR02	COVER, BOX, SCREWS	1
32	200SCR04-11	COVER GASKET	1
33	PN-358	CONTROL PANEL	1
34	MDL-2-1/2	FUSE 250V (4XH60)	1
35	200SCR07	FUSE HOLDER (78687K11)	1
36	3201	CABLE CONNECTOR & BACKNUT	2
37	18/3MP	CABLE & PLUG	1

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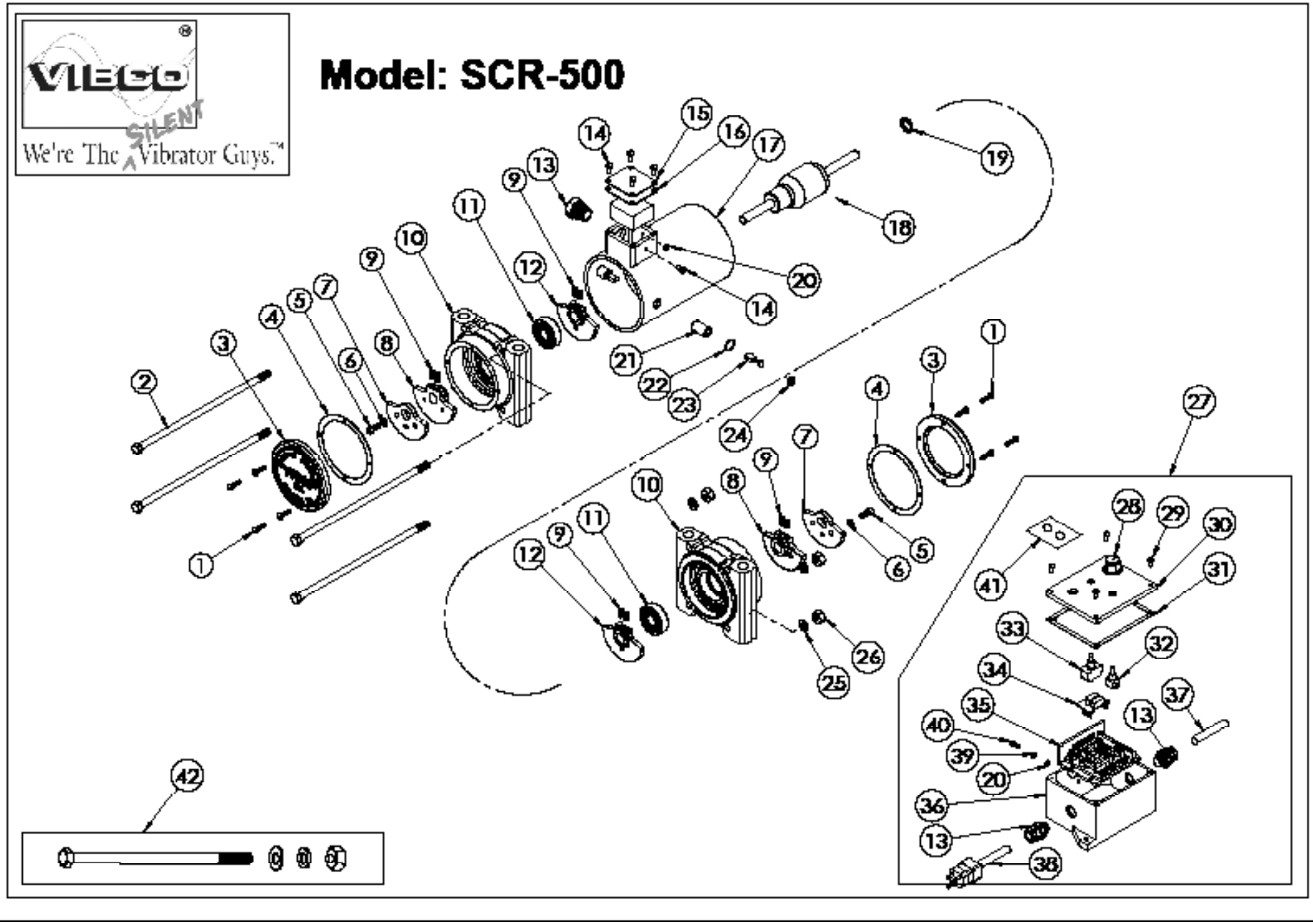
Model: SCR-500



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MODEL : SCR-500

Item No	Part No.	Description	No. Req.
1	10-24X7/8SLTMS	Screw Round Head Machine	5
2	48VM/2h-2	Screw Flex Head ("1-3/4")	4
3	48VM/23-3	Cover	2
4	56VM/38-2	Cover Gasket	2
5	1/4-20X5/8SH	Screw Socket Head Cap	2
6	1/4LW	Lock Washer	2
7	1600US11	Eccentric, Adjustable	2
8	1600US35	Eccentric, Outside	2
9	1/4-20X1/2SS	Screw Socket Set	6
10	1600US37	Housing	2
11	39P201-14-*	Bearing	2
12	1600US33	Inside, Eccentric	2
13	CG3	Cord Grip (Cable Connector)	1
14	10-24X1/2SLTMS	Screw Round Head Machine	5
15	4/VM111-2	Conduit Box Cover	1
16	4/VM111-1	Conduit Box Gasket	1
17	42SCR10**	Field	1
18	42SCR09**	Armature	1
19	42SCR15	Spacer	2
20	10-24HN	Hex Nut	1
21	42SCR13-7*	Brush Holder	2
22	42SCR13-26*	Brush Holder Clip	2
23	42SCR13-9	Brush	2
24	42SCR13-8	Brush Cap	2
25	3/8LW	Lock Washer	4
26	3/8-24HN	Hex Nut	4
27	48SCR10	Control Box	1
28	2502	Knob	1
29	10-24X3/4SEMS	Screw Round Head Machine	4
30	42P121-*	Switch Box Cover	1
31	42P*22-B	Gasket	1
32	1408	Potentiometer	1
33	2106	On/Off Switch SCR Control	1
34	9060	IR Module	1
35	CM-787	Control Panel	1
36	42P120-*	Switch Box	1
37	16/3	SO Cord (A.I.W.) 5 ft	1
38	42P126	16/3 SO Cord (A.I.W.) W/ Plug	1
39	#10LW	Lock Washer	1
40	10-24X5/8RH	Screw Round Head Machine	1
41	48SCR26	Sticker For SCR Control	1
42	Set-05	Mounting Hardware	1

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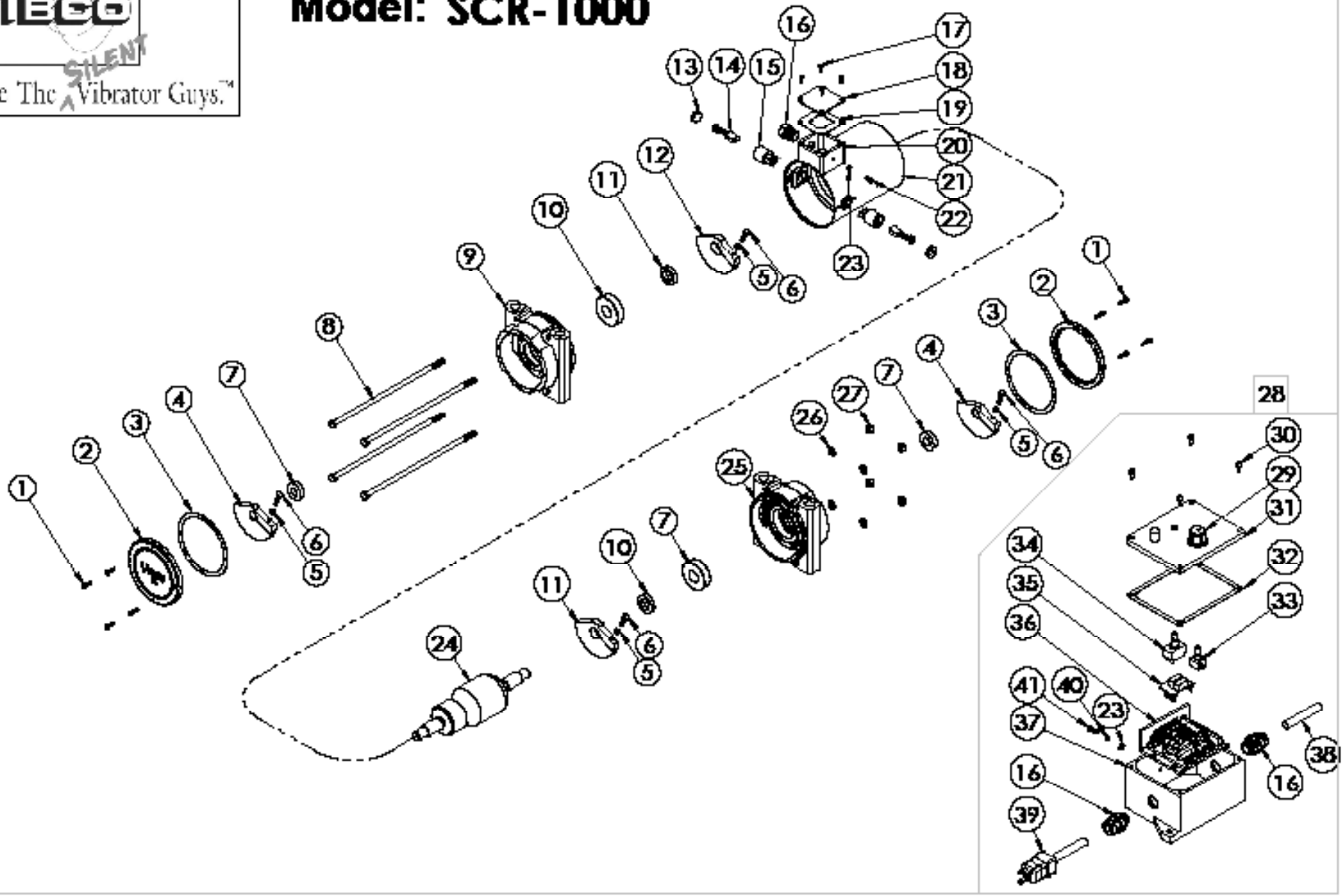
Model: SCR-1000



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MODEL : SCR-1000

tem No.	Part No.	Descript on	No Req.
1	10-24x3/4SEMS	SCREW, ROUND HEAD MACHINE, W/LW&PATCH	8
2	48VM23-4	COVER	2
3	56VM38-3	GASKET	2
4	48P204	ECCENTRIC, OUTSIDE	2
5	1/4LW	LOCKWASHER	4
6	1/4 20X1 1/4HH	SCREW, HEXHEAD	4
7	48P209-1	SPACER	2
8	48SCR24	ROD (17-1/2 IN)	4
9	48SCR14-2	HOUSING, SCR-1000 (BRUSH SIDE)	1
10	6305LLU-C3	BEARING	2
11	48P209-2	SPACER INSIDE	2
12	48P205	ECCENTRIC, INSIDE	2
13	48SCR25-19	BRUSH CAP	2
14	48SCR25-18	BRUSH	2
15	48SCR25-28	BRUSH HOLDERS	2
16	CG3	CORD GRIP (CABLE CONNECTOR)	1
17	8-32X1/2SEMS	SCREW, ROUND HEAD MACHINE, W/LW&PATCH	4
18	48VM111-6	CONDUIT BOX COVER	1
19	48VM111-7	GASKET	1
20	48P221	CONDUIT BOX	1
21	48SCR23	LID	1
22	10-24X1/2SEMS	SCREW, ROUND HEAD MACHINE, W/LW&PATCH	1
23	10-24HN	HEXNUT	1
24	48SCR28	ARMATURE-BUSHING ASSEMBLY	1
25	48SCR14-1	HOUSING, SCR-1000	1
26	3/8LW	HEAVY LOCKWASHER	1
27	3/8-24HN	HEXNUT	1
28	48SCR10	CONTROL BOX	1
29	2502	KNOB	1
30	10-24x3/4SEMS	SCREW, ROUND HEAD MACHINE	4
31	42P121-1	SWITCH BOX COVER	1
32	42P122-B	GASKET	1
33	1408	POTENTIOMETER	1
34	2106	ON/OFF SWITCH SCR CONTROL	1
35	9080	IR MODULE	1
36	CM-787	CONTROL PANEL	1
37	42P120-1	SWITCH BOX	1
38	16/3	SO CORD (A.I.W.) 5 FT	1
39	42P126	16/3 SO CORD (A.I.W.) W/PLUG	1
40	#10 W	LOCKWASHER	1
41	10-24X5/8RH	SCREW, ROUND HEAD MACHINE	1

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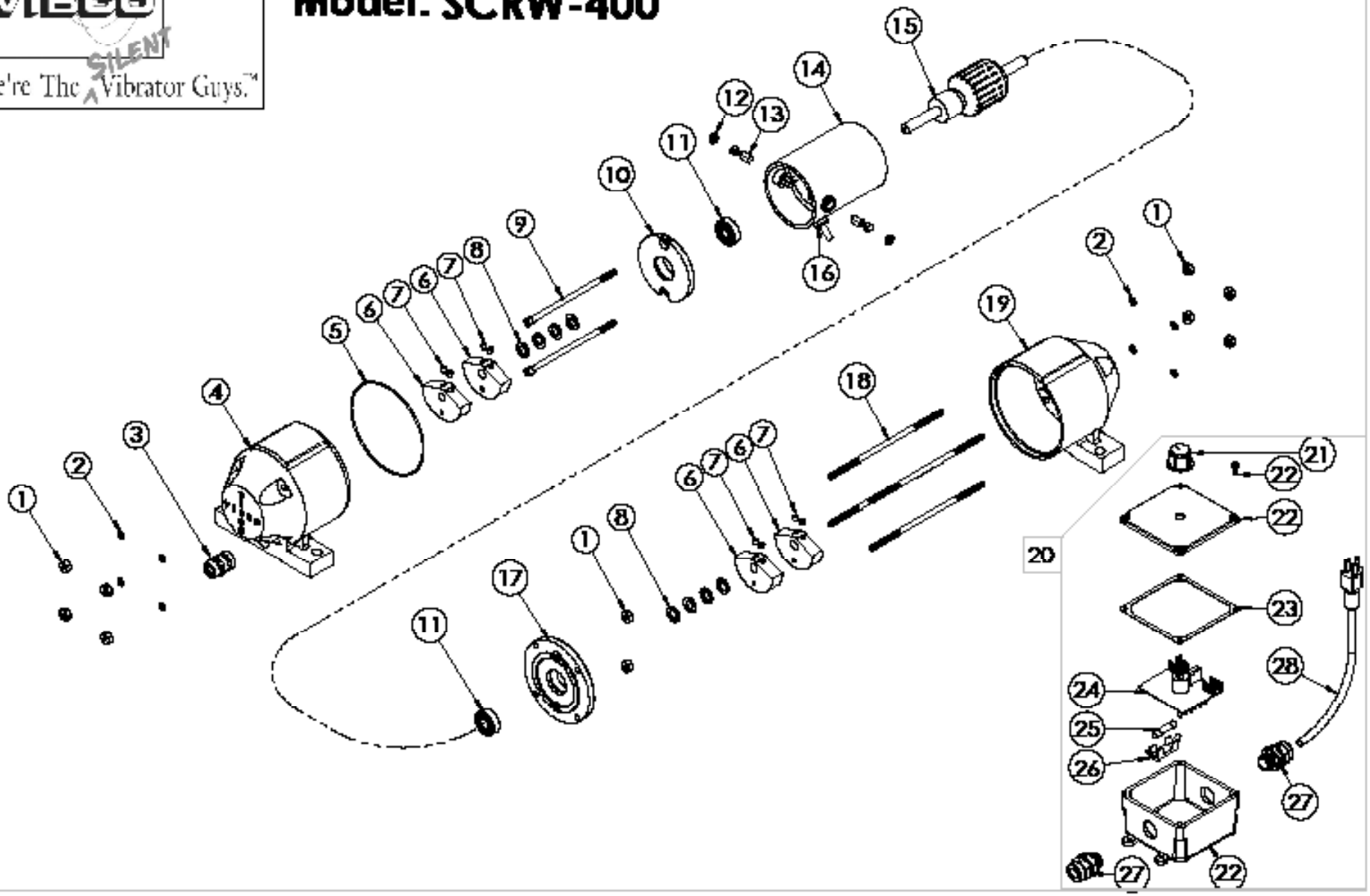
Model: SCRW-400



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MODEL : SCRW-400

Item No.	Part No.	Description	No Req.
1	1/4-20HN	HEX NUT	10
2	1/4BW	BELLEVILLE WASHER	8
3	1234/12BT	CABLE CONNECTOR	1
4	40DC03	HOUSING MACHINE (MALE)	1
5	O47	O-RING	1
6	40DC06-1	ECCENTRIC (DC-500)	4
7	1/4-20X1/4SS	SCREW, SOCKET SET	8
8	100SCR10	SPACER	8
9	1/4-20X5-1/4SH	SCREW, SOCKET HEAD CAP	2
10	40DC10	BACK COVER, (WITH MOTOR)	1
11	6201LLB-C3	BEARING (TURBINE)	2
12	100SCR05-3	BRUSH CAP	2
13	100SCR05-2	BRUSHES (SCR-100)	2
14	100SCR05-4	FIELD SCR	1
15	300SCR02	ARMATURE 90VOLT DC (SCR-300/400)	1
16	2756	GROMMET	1
17	40DC11	FLANGE COVER, (WITH MOTOR)	1
18	40DC07	THRU BOLT-GRADE 5	4
19	40DC04	HOUSING MACHINING (FEMALE)	1
20	200SCR06	SWITCH BOX	1
21	PN-358	CONTROL PANEL	1
22	200SCR02	COVER, BOX, SCREWS	1
23	200SCR04-11	COVER GASKET	1
24	PN-358	CONTROL PANEL	1
25	MDL-2-1/2	FUSE 250V (4XH60)	1
26	200SCR07	FUSE HOLDER (78687K11)	1
27	3201	CABLE CONNECTOR & BACKNUT	2
28	18/3MP	CABLE & PLUG	1

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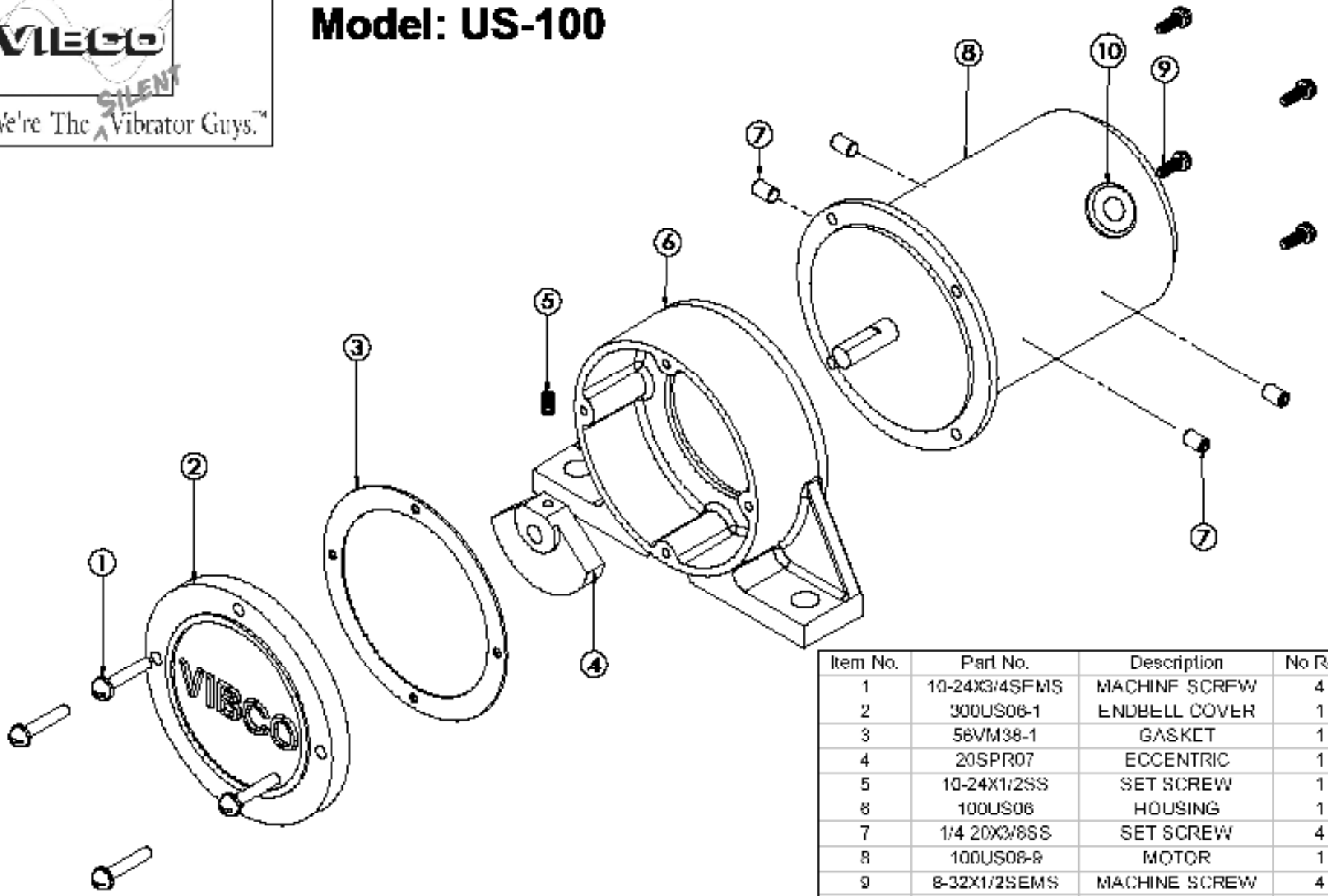
Model: US-100



Item No.	Part No.	Description	No Req.
1	10-24X3/4SFMS	MACHINE SCREW	4
2	300US06-1	ENDBELL COVER	1
3	56VM38-1	GASKET	1
4	20SPR07	ECCENTRIC	1
5	10-24X1/2SS	SET SCREW	1
6	100US06	HOUSING	1
7	1/4 20X3/8SS	SET SCREW	4
8	100US08-8	MOTOR	1
9	8-32X1/2SEMS	MACHINE SCREW	4
10	100US16	GROMMET	1

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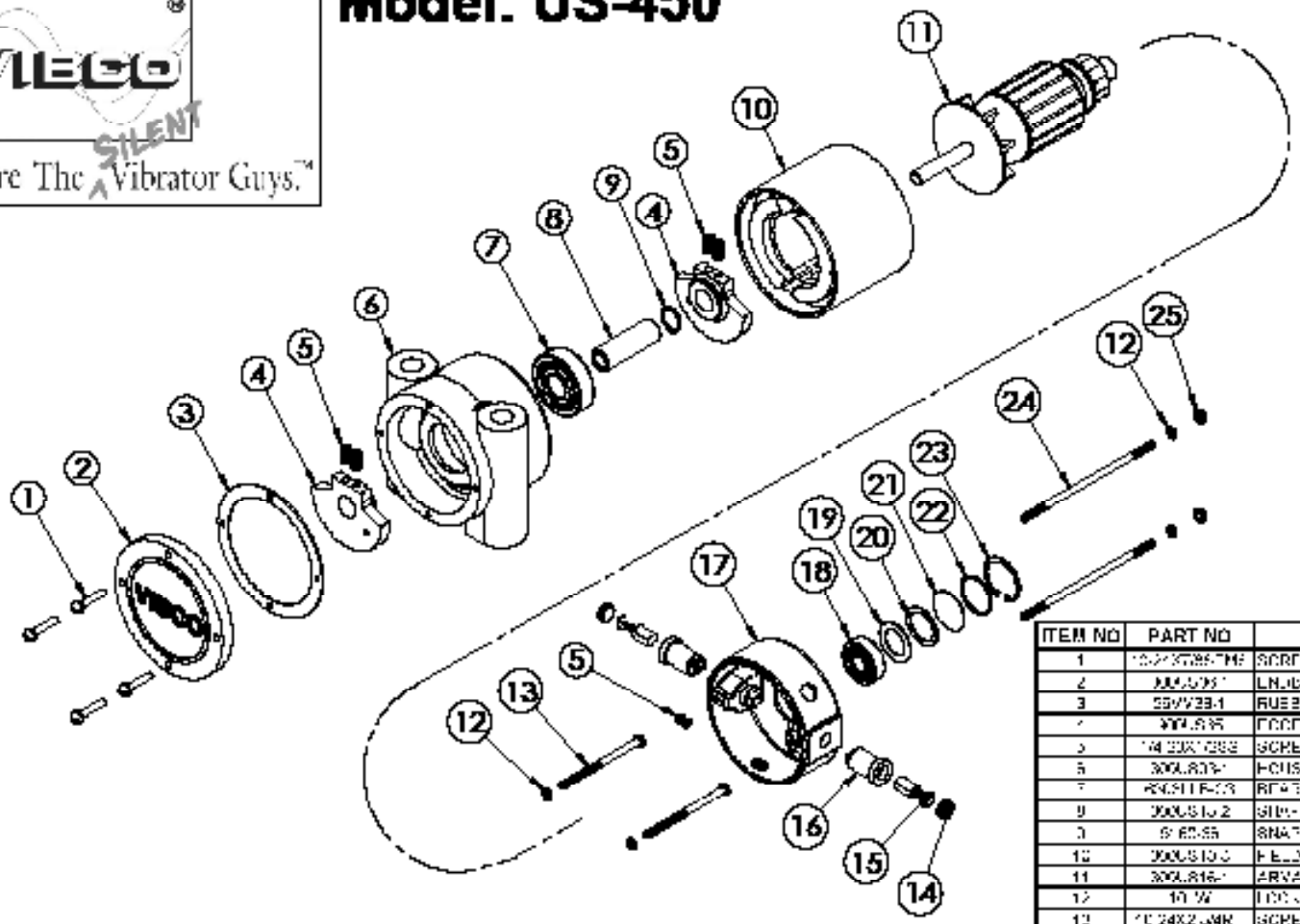
Model: US-450



ITEM NO	PART NO	DESCRIPTION	Nm. Req.
1	[illegible]	SCREW, ROUND HEAD MACHINE, PHILIPS PATCH	4
2	[illegible]	END BELL COVER	1
3	59VV28-1	RUBBER GASKET	1
4	[illegible]	FOOTPRINT OUTLET	2
5	[illegible]	SCREW, SOCKET SET	4
6	300LS03-	HOUSING	1
7	[illegible]	BEARING	1
8	300LS10-2	SPACER BUSHING	1
9	S-62-55	SNAP RING	1
10	300LS10-3	FIELD ASSEMBLY	1
11	300LS16-	ARMATURE, US-450	1
12	10 W	LOCK WASHER	4
13	[illegible]	SCREW, ROUND HEAD MACHINE	2
14	300LS20-3	BRUSH CAP	2
15	[illegible]	BRUSH	2
16	300LS28- 4	BRUSH HOLDER	2
17	300LS20-7	END BELL	1
18	[illegible]	BEARING	1
19	300LS28-21	WASHER	1
20	[illegible]	SPRING WASHER	1
21	300LS28-22	SOLID WASHER	1
22	D23	O-RING	1
23	[illegible]	SNAP RING	1
24	300SC401-12	DOUBLE ENDED STUD (5/16X6)	2
25	10-24HN	HEX NUT	2
26	CD-1	CABLE CRIP	1

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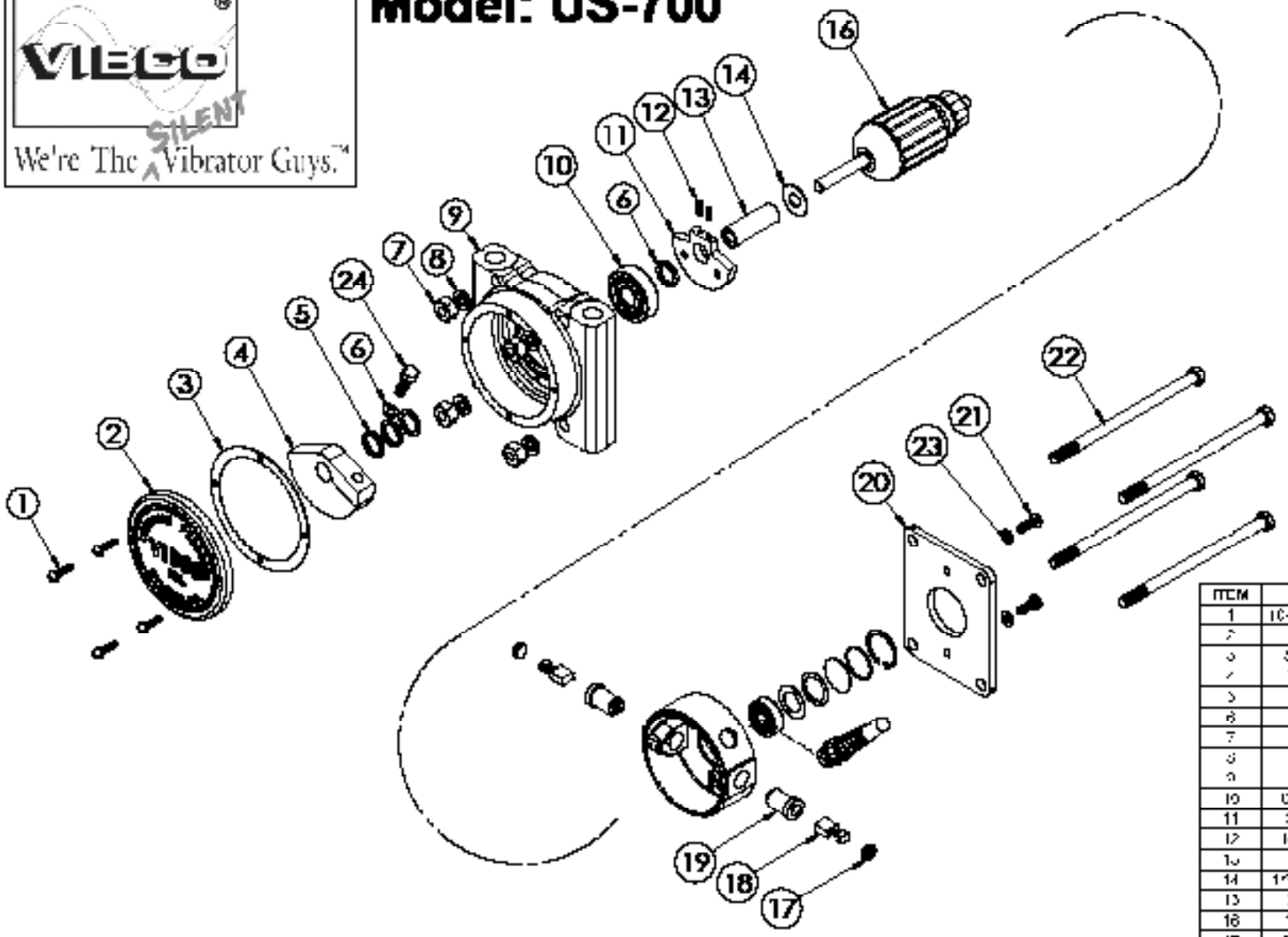
Model: US-700



ITEM	PART NO	DESCRIPTION	No. Req.
1	10-24X7/8SEMS	MACHINE SCREW	4
2	48YD03-3	COVER	1
3	93VM064-7	GASKET; RUBBER	1
4	700DC003	ECCENTRIC	1
5	42SCR-3	SPACER	4
6	516LW	LOCKWASHER	1
7	3/8-16HN	HEX NUT	4
8	38LW	LOCKWASHER	4
9	700LH37	HOUSING, END BELL	1
10	6306LLB C3	BEARING	1
11	300DC021-1	ECCENTRIC, INSIDE	1
12	10-24X.375SS	SCREW SOCKET SET	2
13	700DJ013	BEARING BUSHING	1
14	1932-DXC-1.5	MOTOR SHAFT	1
15	300LS-B-3	FIELD	1
16	300LS-13-1	ARMATURE	1
17	300LA69-13	BRUSH CAP	2
18	300LS20-15	BRUSH	2
19	300LA69-14	BRUSH HOLDER	2
20	700DC002	REAR PLATE	1
21	1M-20AS/BK-1	MACHINE SCREW	2
22	5/8-18X5-1/2 HH	SCREW HEX HEAD CAP	4
23	516LW	LOCKWASHER	1
24	5/8-18X1-1/4 HH	HEX HEAD BOLT	1

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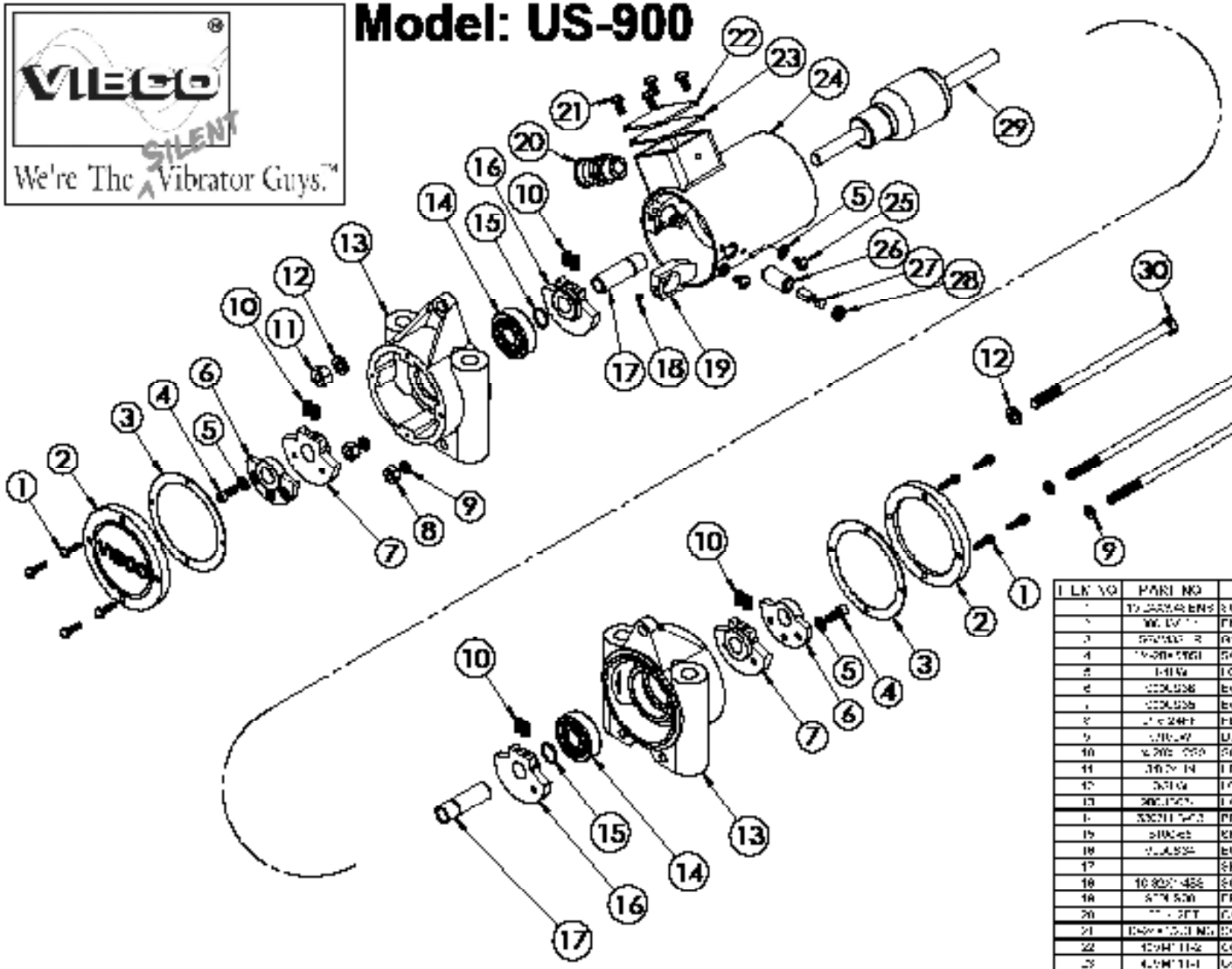
Model: US-900



ITEM NO	PART NO	DESCRIPTION	No. Req.
1	10-2000-ASSEMBLY	SCREW, 6-32 X 3/16" ROUND HEAD MACHINE WITH LOCK TYPE	2
2	900.0001	FRONT COVER	1
3	0000-0000-R	GASKET, FIBER	2
4	10-2000-0001	SCREW, SOCKET HEAD CAP	4
5	1-0100	CONTACT, TIP	4
6	0000.0000	BOBBIN, FIELD, WINDING	2
7	0000.0000	BOBBIN, FIELD, SLOTTED	2
8	0-0-0-0000	FIELD	1
9	0-0000-0	LOCKWASHER	4
10	0-2000-0000	SCREW, SOCKET SET	5
11	000-0-14	LENS NUT	1
12	0000	CONTACT, TIP	5
13	0000.0000	HOUSING	1
14	00000-0000	BEARING	1
15	0-0000	SPACER	2
16	0-0-0000	BOBBIN, FIELD	2
17		SHAFT, BUSHING (PART OF ARMATURE ASSEMBLY)	2
18	10-2000-0000	SCREW, SOCKET SET	2
19	0-0-0-0000	FRICTION, SPRING	2
20	0-0-0-0-0-0-0-0	CAP, CONNECTING	
21	0000-0000-0000	SCREW, SOCKET HEAD CAP, 10-32 X 3/4"	1
22	0000-0000-0	CONTACT, SPRING	
23	0-0000-0-0	CONTACT, SPRING	1
24	0000-0-0-0	FIELD, US-900	1
25	10-2000-0000	SCREW, ROUND HEAD MACHINE	4
26	0-0-0-0000	FRICTION, SPRING	2
27	0-0-0-0-0	FRICTION	1
28	0-0000-0-0	FRICTION, CAP	1
29	0000-0-0-0	ARMATURE ASSEMBLY	
30	0000.0000	HOUSING	
31	0000-0000	HOUSING	1

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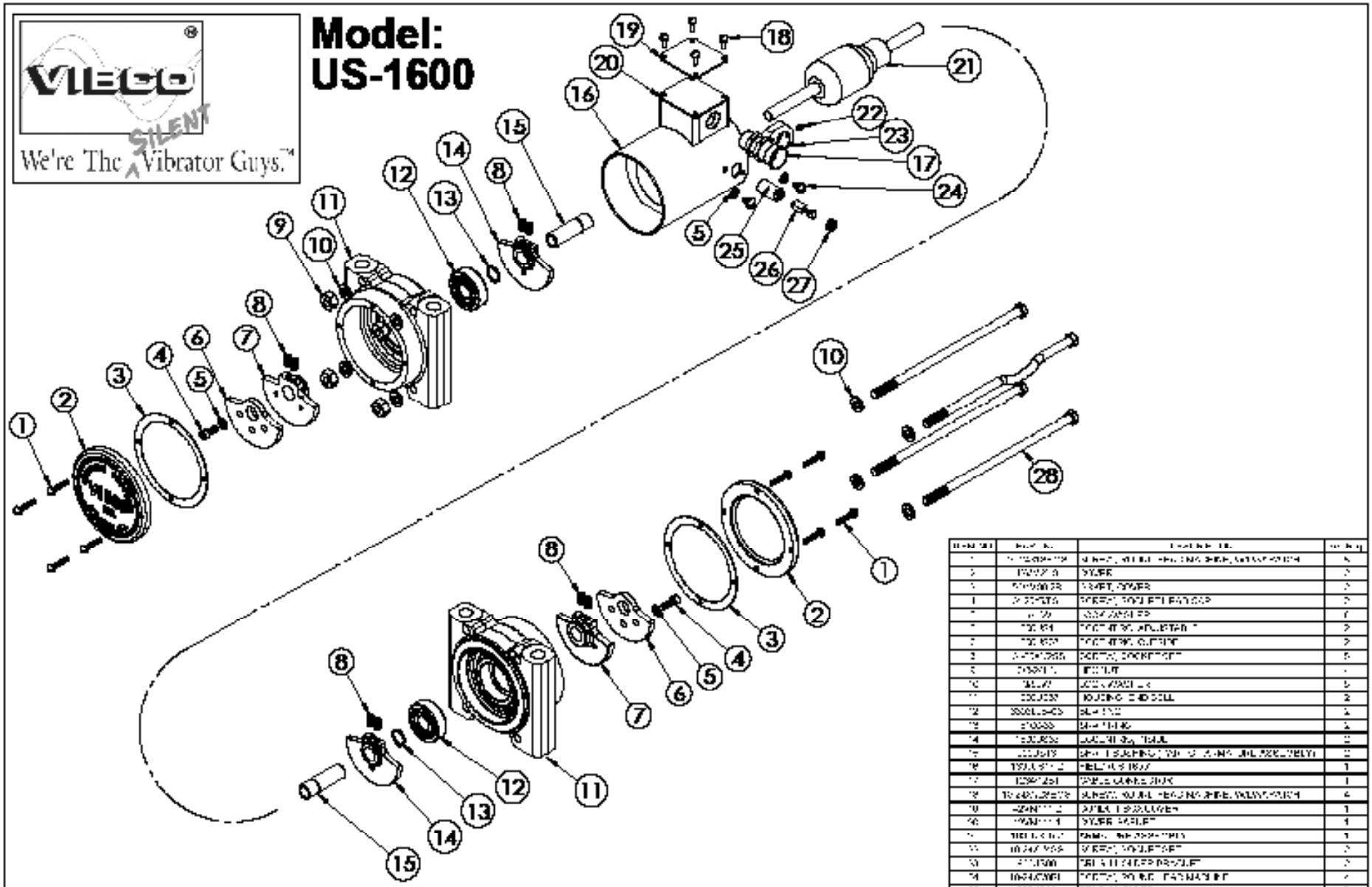
Model: US-1600



ITEM NO.	PART NO.	DESCRIPTION	QTY REQ
1	[illegible]	SCREW, SOCKET HEAD CAP	6
2	[illegible]	COVER	2
3	[illegible]	SHAFT, DRIVEN	2
4	[illegible]	SCREW, SOCKET HEAD CAP	2
5	[illegible]	GEAR, DRIVEN	2
6	[illegible]	KEY, SQUARE	2
7	[illegible]	KEY, SQUARE	2
8	[illegible]	SCREW, SOCKET SET	6
9	[illegible]	WASHER	4
10	[illegible]	BOLT	6
11	[illegible]	HOUSING, END CAP	2
12	[illegible]	BEARING	4
13	[illegible]	SEAL	2
14	[illegible]	BEARING, ROLLER	2
15	[illegible]	SHAFT, DRIVE	2
16	[illegible]	HOUSING, MAIN	1
17	[illegible]	GEAR, DRIVE	1
18	[illegible]	SCREW, SOCKET HEAD CAP	4
19	[illegible]	PLATE, IDENTIFICATION	1
20	[illegible]	RIVET, BLIND	4
21	[illegible]	MOTOR, 1 PHASE	1
22	[illegible]	KEY, SQUARE	1
23	[illegible]	SPACER	1
24	[illegible]	SCREW, SOCKET SET	2
25	[illegible]	SWITCH, VIBRATION	1
26	[illegible]	SCREW, SOCKET CAP	2
27	[illegible]	NUT, HEX	2
28	[illegible]	ROD, TIE	4

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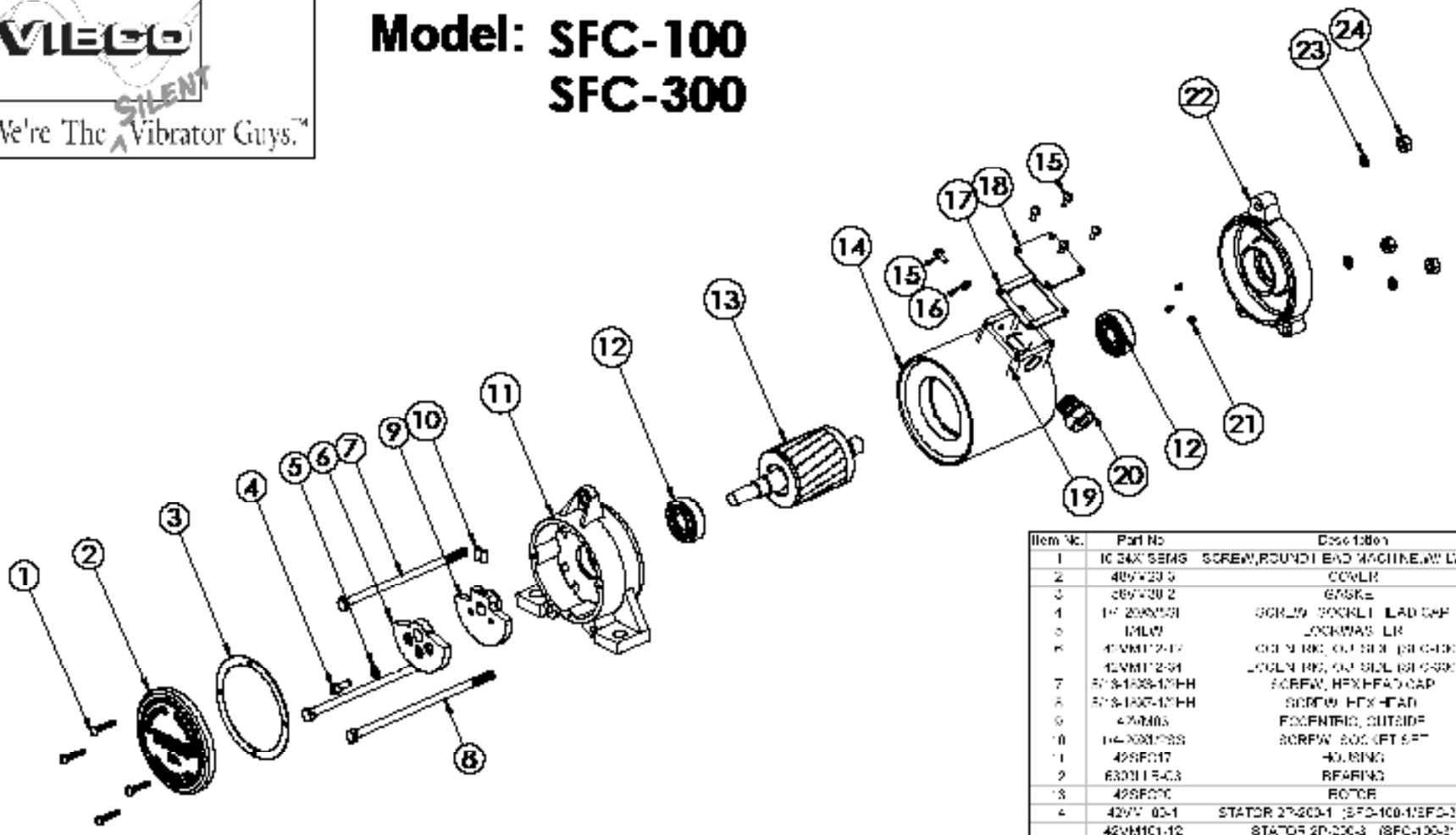
Model: SFC-100
SFC-300



Item No.	Part No	Description	Qty Req.
1	10-24X SEMS	SCREW,ROUND HEAD MACHINE,W/ LW & FW	4
2	42VV230-5	COVER	1
3	42VV230-2	GASKET	1
4	1/4-20SOCSET	SCREW, SOCKET HEAD CAP	1
5	EXLW	LOCKWASHER	1
6	42VM112-17	CONDUIT BOX, OUTSIDE (SFC-100)	1
	42VM112-51	CONDUIT BOX, OUTSIDE (SFC-300)	
7	5/8-11X3-1/2HH	SCREW, HEX HEAD CAP	1
8	5/8-11X7-1/2HH	SCREW, HEX HEAD	2
9	42VM103	ECCENTRIC, OUTSIDE	1
10	1/4-20X1.25SS	SCREW, SOCKET SET	2
11	42SF017	HOUSING	1
12	6302 ETN9	BEARING	2
13	42SF020	ROTOR	1
14	42VV230-1	STATOR 3PH 230-1 (SFC-100-1/SFC-300-1)	1
	42VM101-12	STATOR 3PH 230-3 (SFC-100-3)	1
15	10-24X1/2SEMS	SCREW,ROUND HEAD MACHINE,W/ LW & FW	6
16	C-24-N	HEX NUT	1
17	42VV111-1	COVER GASKET	1
18	42VV111-2	CONDUIT BOX COVER	1
19	42VM104	CONDUIT BOX	1
20	CG3	CORD GRIP (CABLE CONNECTOR)	1
21	10-24X1/4SS	SCREW, SOCKET SET	3
22	42SF018	END COVER	1
23	5/16LW	5/16" LOCKWASHER	3
24	5/16-18N	HEX NUT	3

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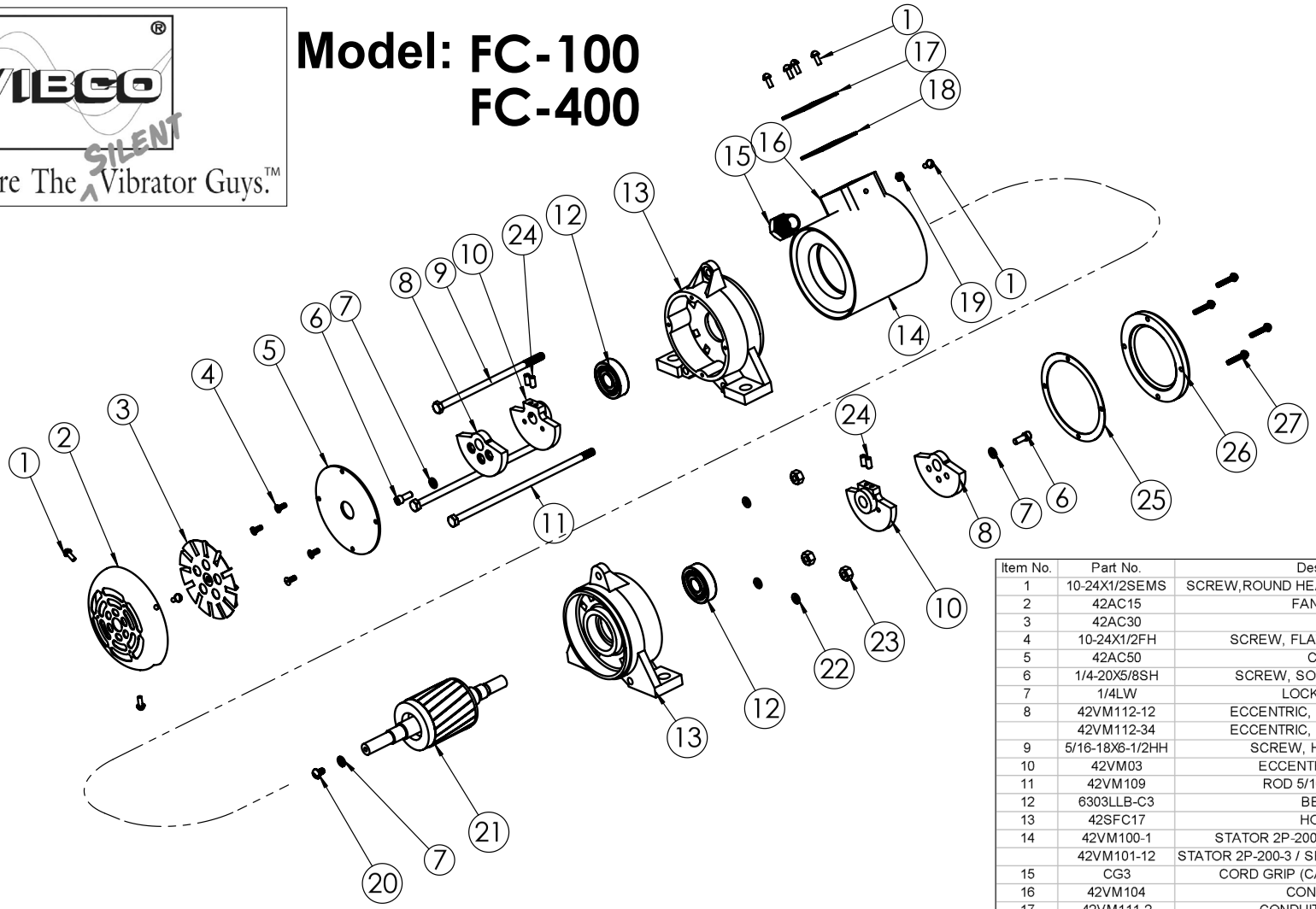
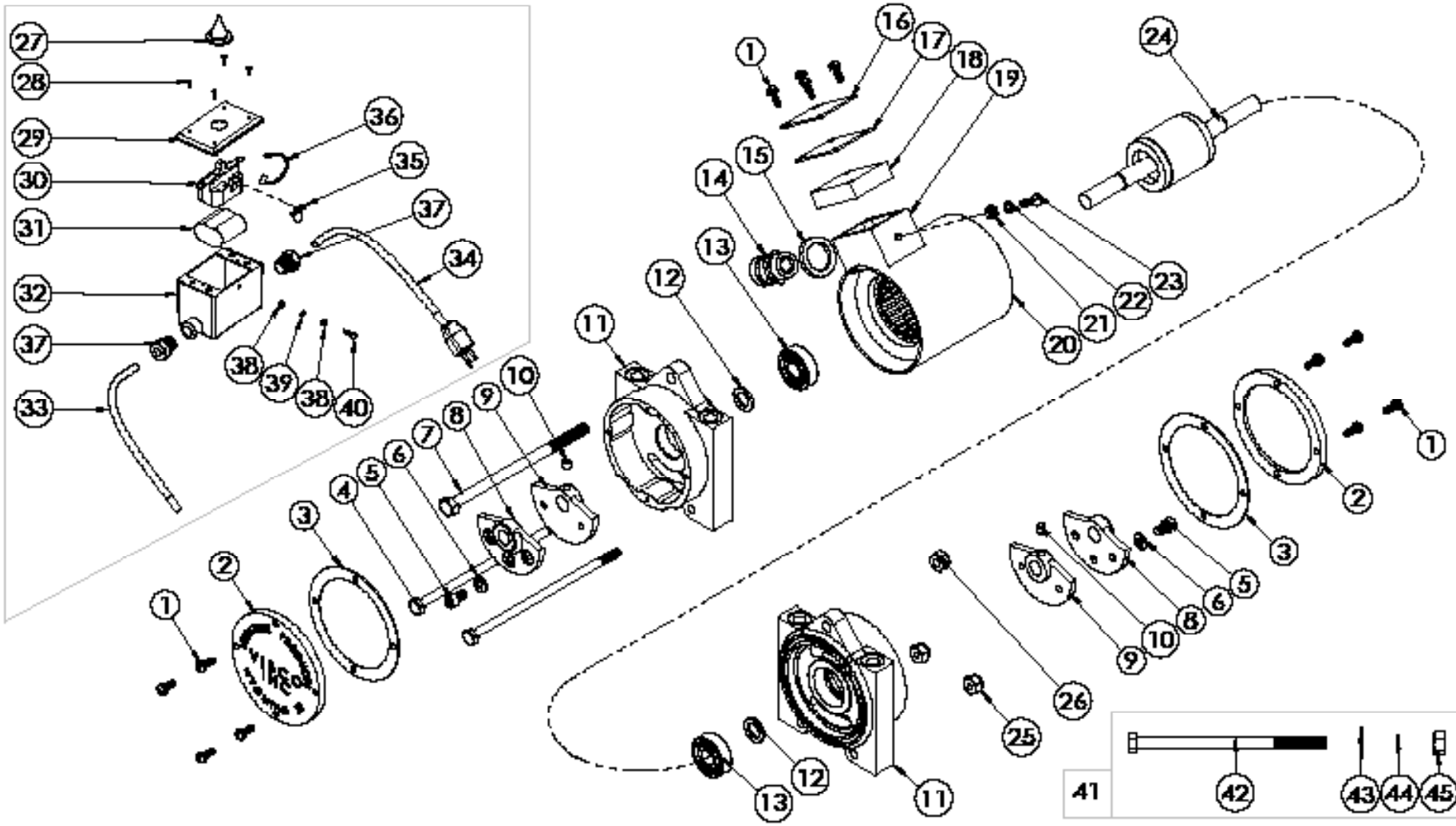
Model: FC-100
FC-400



Item No.	Part No.	Description	No Req.
1	10-24X1/2SEMS	SCREW,ROUND HEAD MACHINE, W/LW&PA	8
2	42AC15	FAN GUARD	1
3	42AC30	FAN	1
4	10-24X1/2FH	SCREW, FLAT HEAD MACHINE	4
5	42AC50	COVER	1
6	1/4-20X5/8SH	SCREW, SOCKET HEAD CAP	2
7	1/4LW	LOCKWASHER	3
8	42VM112-12	ECCENTRIC, OUTSIDE (FC-100)	2
	42VM112-34	ECCENTRIC, OUTSIDE (FC-400)	2
9	5/16-18X6-1/2HH	SCREW, HEX HEAD CAP	1
10	42VM03	ECCENTRIC, OUTSIDE	2
11	42VM109	ROD 5/16-24X8-3/4HH	2
12	6303LLB-C3	BEARING	2
13	42SFC17	HOUSING	2
14	42VM100-1	STATOR 2P-200-1 (SINGLE PHASE)	1
	42VM101-12	STATOR 2P-200-3 / SFC-100-3 (THREE PHASE)	1
15	CG3	CORD GRIP (CABLE CONNECTOR)	1
16	42VM104	CONDUIT BOX	1
17	42VM111-2	CONDUIT BOX COVER	1
18	42VM111-1	COVER GASKET	1
19	10-24HN	HEX NUT	1
20	1/4-20X3/8RH	SCREW, ROUND HEAD MACHINE	1
21	42SFC23	ROTOR	1
22	5/16LW	HEAVY LOCKWASHERS	3
23	5/16-18HN	HEX NUT	3
24	1/4-20X1/2SS	SCREW, SOCKET SET	4
25	56VM38-2	GASKET	1
26	48VM23-3	COVER	1
27	10-24X1SEMS	SCREW,ROUND HEAD MACHINE, W/LW&PA	4

Model: 2P-75



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MODEL : 2P-75

Item No.	Part No.	Description	No. Req.
1	8-32X1/2SEMS	SCREW, RD HD MACHINE W/LW & PAT	12
2	33VM22	COVER	2
3	33VM23	GASKET	2
4	1/4-20X6HH	SCREW, HEX HEAD	2
5	1/4-20X3/8SH	SCREW, SOCKET HEAD CAP	2
6	1/4LW	LOCKWASHER	2
7	5/16-18X5-1/2HH	SCREW, HEX HEAD	1
8	33VM35	ECCENTRIC, OUTSIDE	2
9	33VM34	ECCENTRIC, INSIDE	2
10	1/4-20X1/4SS	SCREW, SOCKET SET	2
11	33DC011	HOUSING	2
12	100SCR10	SPACER	2
13	6201LLE-C3	BEARING(TURBINE)	2
14	SE-1740	CABLE CONNECTOR	1
15	5262	1/2 IN. SEALING RING	1
16	33VM21-2	CONDUIT BOX COVER	1
17	33VM21-1	COVER GASKET	1
18	33VM21-3	FOAM	1
19	33VM20	CONDUIT BOX	1
20	33VM03-2	STATOR (115V)	1
	33VM30-2	STATOR (230V)	1
	33VM28-4	STATOR (460V)	1
21	10-24HN	HEX NUT	1
22	10LW	#10 LOCKWASHER	1
23	10-24X3/8RH	SCREW, ROUND HEAD MACHINE	1
24	33VM03-1	ROTOR W/ SHAFT	1
	33VM30-1	ROTOR (230/460 V)	
25	1/4-20LN	LOCKNUT	2
26	5/16-18LN	LOCKNUT	1
27	21136	RUBBER BOOT	1
28	6-32X1/2OH	SCREW, OVAL HEAD MACHINE	4
29	33VM44-1	COVER, SWITCH BOX (W/ GASKET)	1
30	2P21	SWITCH	1
31	6MFD	CAPACITOR (6X654)	1
32	33VM43	SWITCH BOX	1
33	42P131	16/4 SO CORD (6 FT)	1
34	42P126	16/4 SO CORD W/PLUG (4 FT)	1
35	R09	HEATER	1
36	42P136	JUMPER W/ 90 DEG. SOT	1
37	CG3	CORD GRIP (CABLE CONNECTOR)	2
38	10-24 HN	HEX NUT	2
39	10LW	#10 LOCKWASHER	1
40	10-24X1/2RH	SCREW, ROUND HEAD MACHINE	1

Item No.	Part No.	Description	No. Req.
41	SET-13	MOUNTING HARDWARE	1
42		5/16-18X4-1/2 BOLT	4
43		5/16 FLAT WASHER	4
44		5/16 LOCK WASHER	4
45		5/16-18 NUT	4

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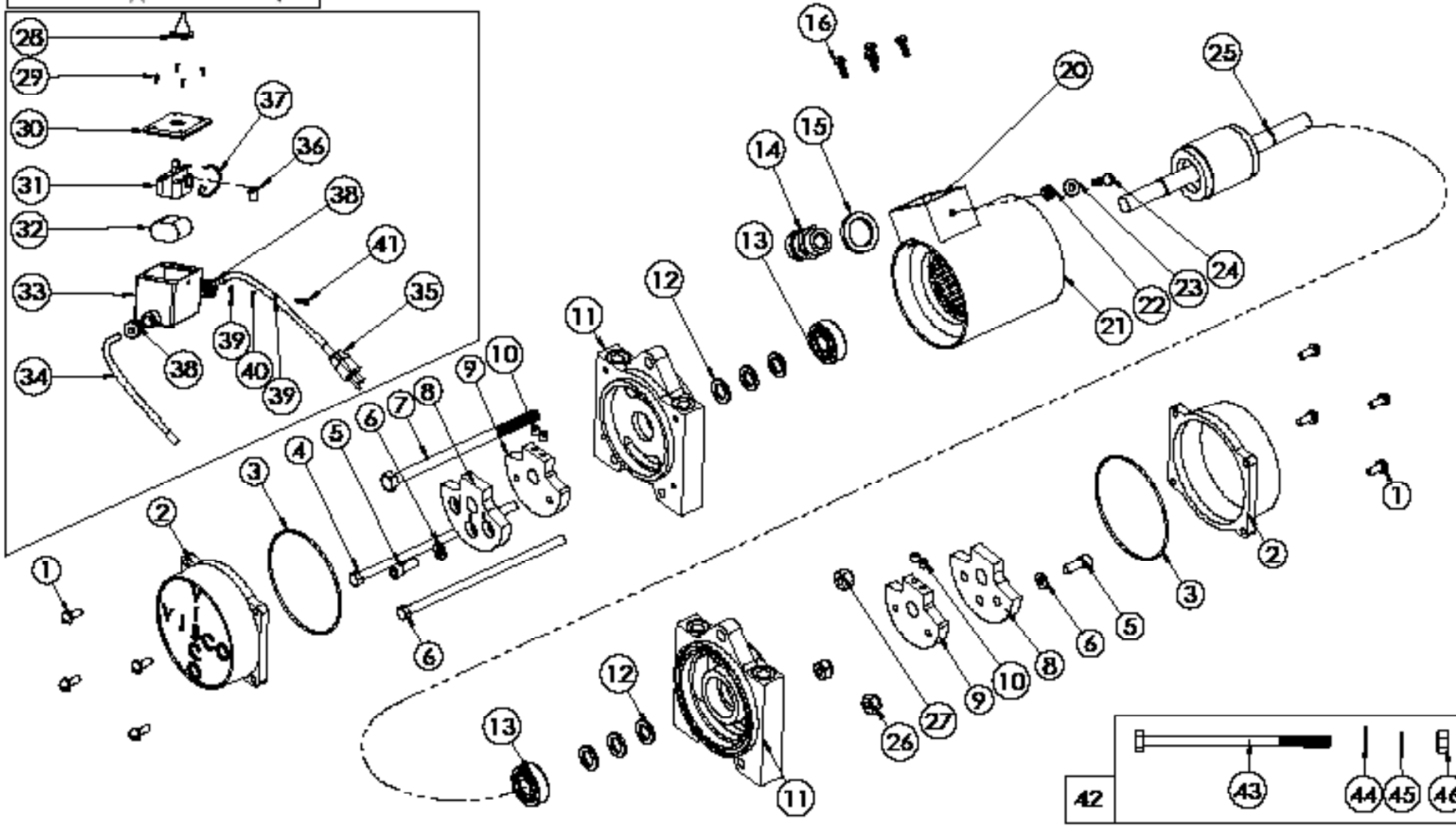
Model: 2P-100



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MODEL : 2P-100

Item No.	Part No.	Description	No. Req.
1	10-24X1/2SEMS	SCREW, RD HD MACHINE W/LW & PATC	8
2	33DC007	END COVER	2
3	41	O RING	2
4	1/4-20X6HH	SCREW, HEX HEAD	2
5	1/4-20X5/8SH	SCREW, SOCKET HEAD CAP	2
6	1/4LW	LOCKWASHER	2
7	5/16-18X5-1/2HH	SCREW, HEX HEAD	1
8	33DC020	ADJ. ECCENTRIC	2
9	33DC012	ECCENTRIC, INSIDE	2
10	1/4-20X1/4SS	SCREW, SOCKET SET	2
11	33DC004	HOUSING	2
12	10DSC810	SPACER	6
13	6201LLB-C3	BEARING(TURBINE)	2
14	SE-1740	CABLE CONNECTOR	1
15	5262	1/2 IN. SEALING RING	1
16	8-32X1/2SEMS	SCREW, RD HD MACHINE W/LW & PATC	4
17	33VM21-2	CONDUIT BOX COVER	1
18	33VM21-1	COVER GASKET	1
19	33VM21-3	FOAM	1
20	33VM20	CONDUIT BOX	1
21	33VMC3-2	STATOR (115V)	1
	33VM30-2	STATOR (230V)	1
	33VM30-4	STATOR (460V)	1
22	10-24HN	HEX NUT	1
23	10LW	#10 LOCKWASHER	1
24	10-24X5/16RH	SCREW, ROUND HEAD MACHINE	1
25	33VMC3-1	ROTOR W/ SHAFT	1
	33VM30-1	ROTOR (230/460 V)	1
26	1/4-20LN	LOCKNUT	2
27	5/16-18LN	LOCKNUT	1
28	21106	RUBBER BOOT	1
29	6-32X1/2OH	SCREW, OVAL HEAD MACHINE	4
30	33VM44-1	COVER, SWITCH BOX (W/ GASKET)	1
31	2P2T	SWITCH	1
32	6MFD	CAPACITOR (60Hz)	1
33	33VM43	SWITCH BOX	1
34	42P131	16/4 SO CORD (6 FT)	1
35	42P129	16/4 SO CORD W/PLUG (4 FT)	1
36	RC8	HEATER	1
37	42P136	JUMPER W/ 60 DEG. SOT	1
38	CG3	CORD GRIP (CABLE CONNECTOR)	2
39	10-24 HN	HEX NUT	2
40	10LW	#10 LOCKWASHER	1
41	10-24X1/2RH	SCREW, ROUND HEAD MACHINE	1

Item No.	Part No.	Description	No. Req.
42	SET-13	MOUNTING HARDWARE	1
43		5/16-18X4-1/2 BOLT	4
44		5/16 FLAT WASHER	4
45		5/16 LOCK WASHER	4
46		5/16-18 NUT	4

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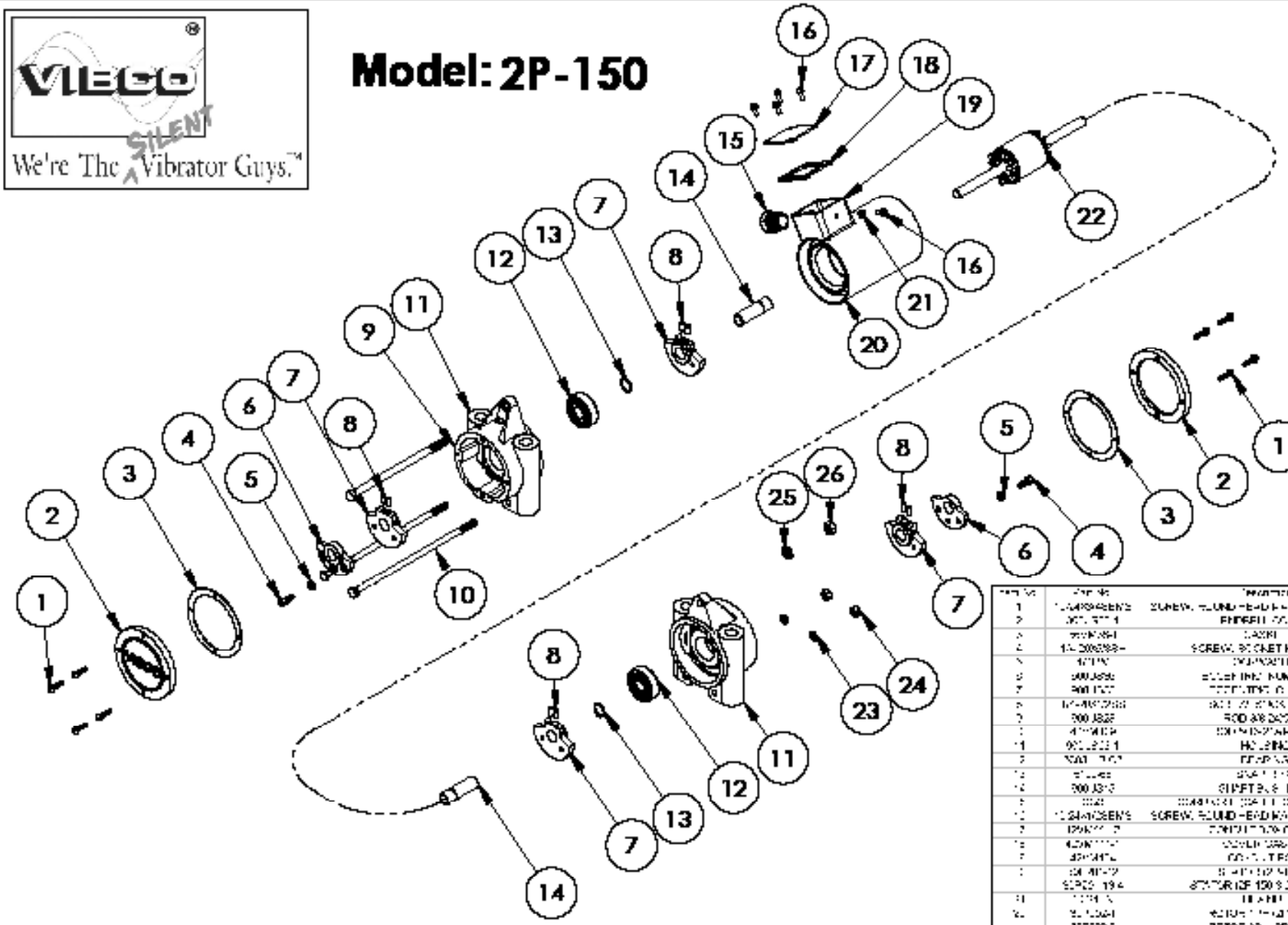
Model: 2P-150



Part No.	Part No.	Description	Per Unit
1	[illegible]	SCREW, FLUID-HEAD MACHINE, [illegible]	8
2	[illegible]	RETAINER COVER	2
3	[illegible]	GASKET	2
4	[illegible]	SCREW, SOCKET HEAD CAP	2
5	[illegible]	[illegible]	2
6	[illegible]	ROLLER END, NUMBERED	4
7	[illegible]	[illegible]	2
8	[illegible]	[illegible]	8
9	[illegible]	[illegible]	1
10	[illegible]	[illegible]	2
11	[illegible]	HOUSING	2
12	[illegible]	[illegible]	2
13	[illegible]	[illegible]	4
14	[illegible]	[illegible]	2
15	[illegible]	[illegible]	1
16	[illegible]	SCREW, FLUID-HEAD MACHINE, [illegible]	6
17	[illegible]	[illegible]	2
18	[illegible]	[illegible]	1
19	[illegible]	[illegible]	1
20	[illegible]	STATOR (SP-150 & 2P-150)	1
21	[illegible]	[illegible]	2
22	[illegible]	[illegible]	2
23	[illegible]	HEXNUT	2
24	[illegible]	[illegible]	2
25	[illegible]	HEXNUT	2

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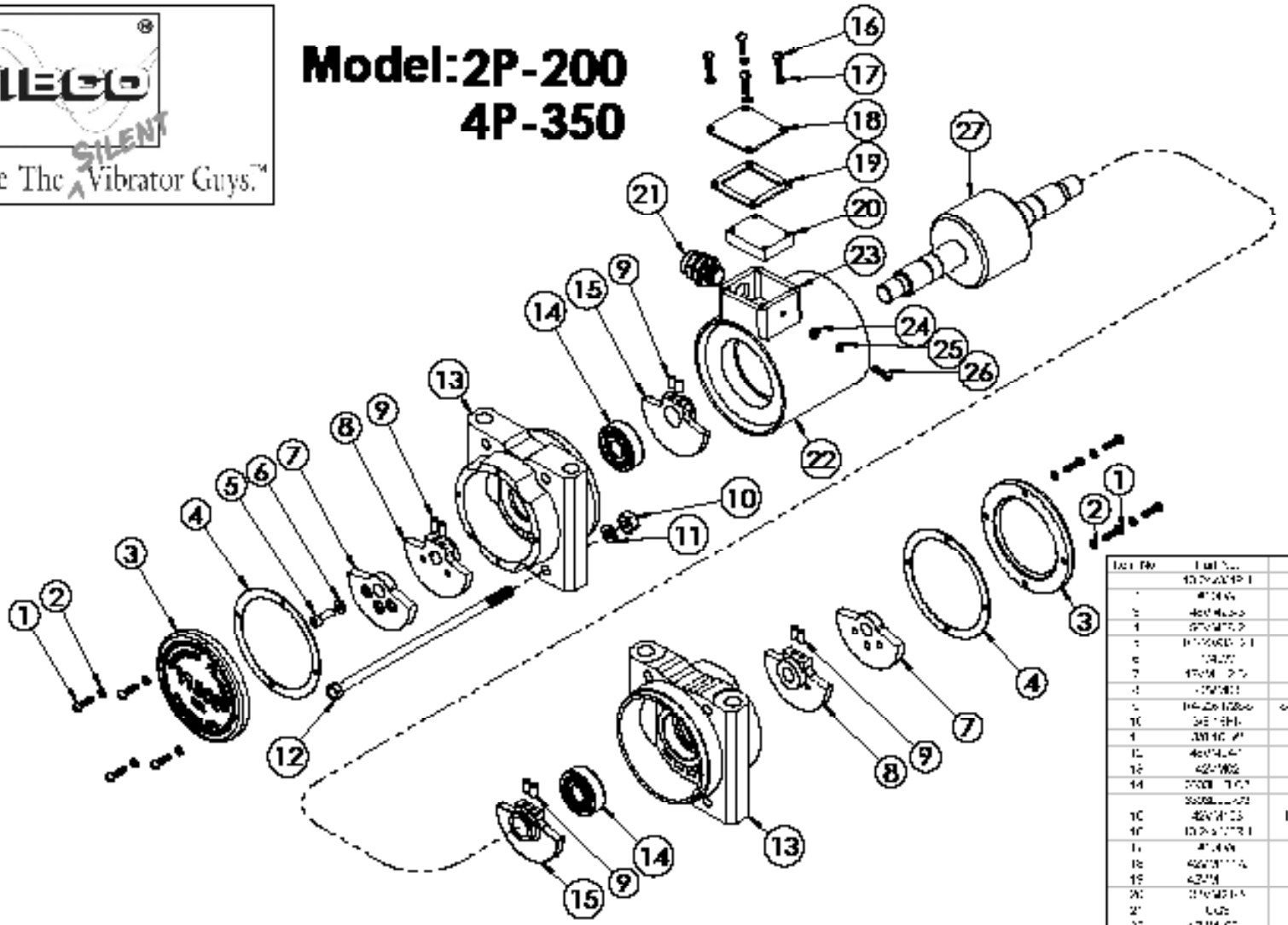
Model:2P-200
4P-350



Item No.	Part No.	Description	Req. Per
		Screw	6
		Lock Washer	6
3		Gasket	2
4		Cover Gasket	2
5		Socket Head Screw	2
6		Lock Washer	2
7		Terminal Assembly Harness	2
8		Conduit Seal Assembly	2
9		Conduit Seal Screw (4P-350 Uses 4)	4
10		Pivot Pin	4
11		Lock Washer	4
12		Spring, Tension Weight (2P)	4
13		Eyebolt	2
14		Terminal Block	2
		Bearing (2P)	2
16		Drive Bushing (4P-350 ONLY)	2
17		Socket Head Screw	4
18		Lock Washer	4
19		Cover Plate Gasket	1
20		Conduit Body Gasket	1
21		Cable Connector	1
22		Motor (2P 230 ph)	1
		Motor (2P 460 ph)	1
		Motor (4P 230 ph)	1
		Motor (4P 460 ph)	1
23		Conduit Box	1
24		Cover Hub	1
25		Lock Washer	1
26		Round Head Machine Screw	1
27		Cord	1

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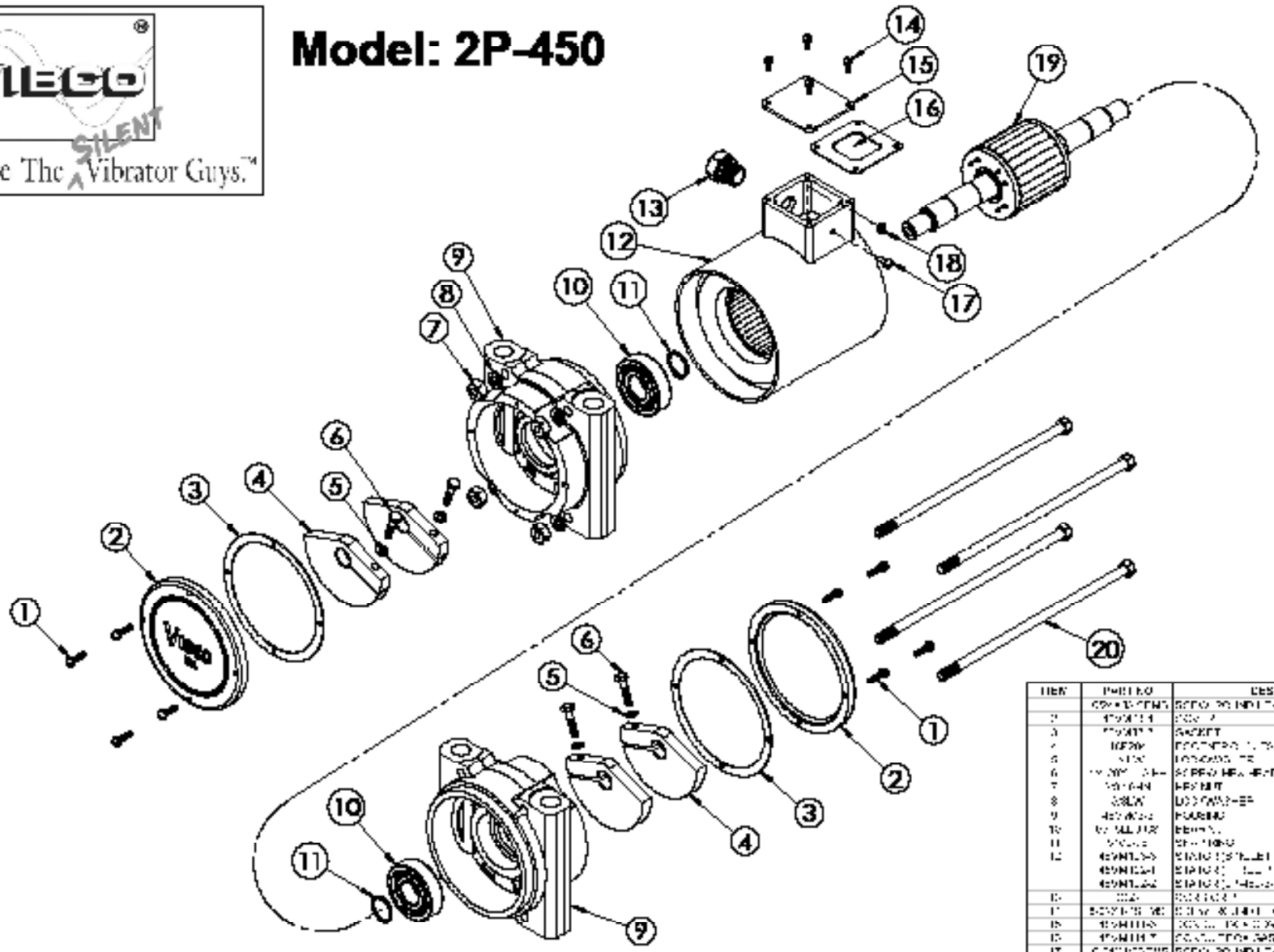
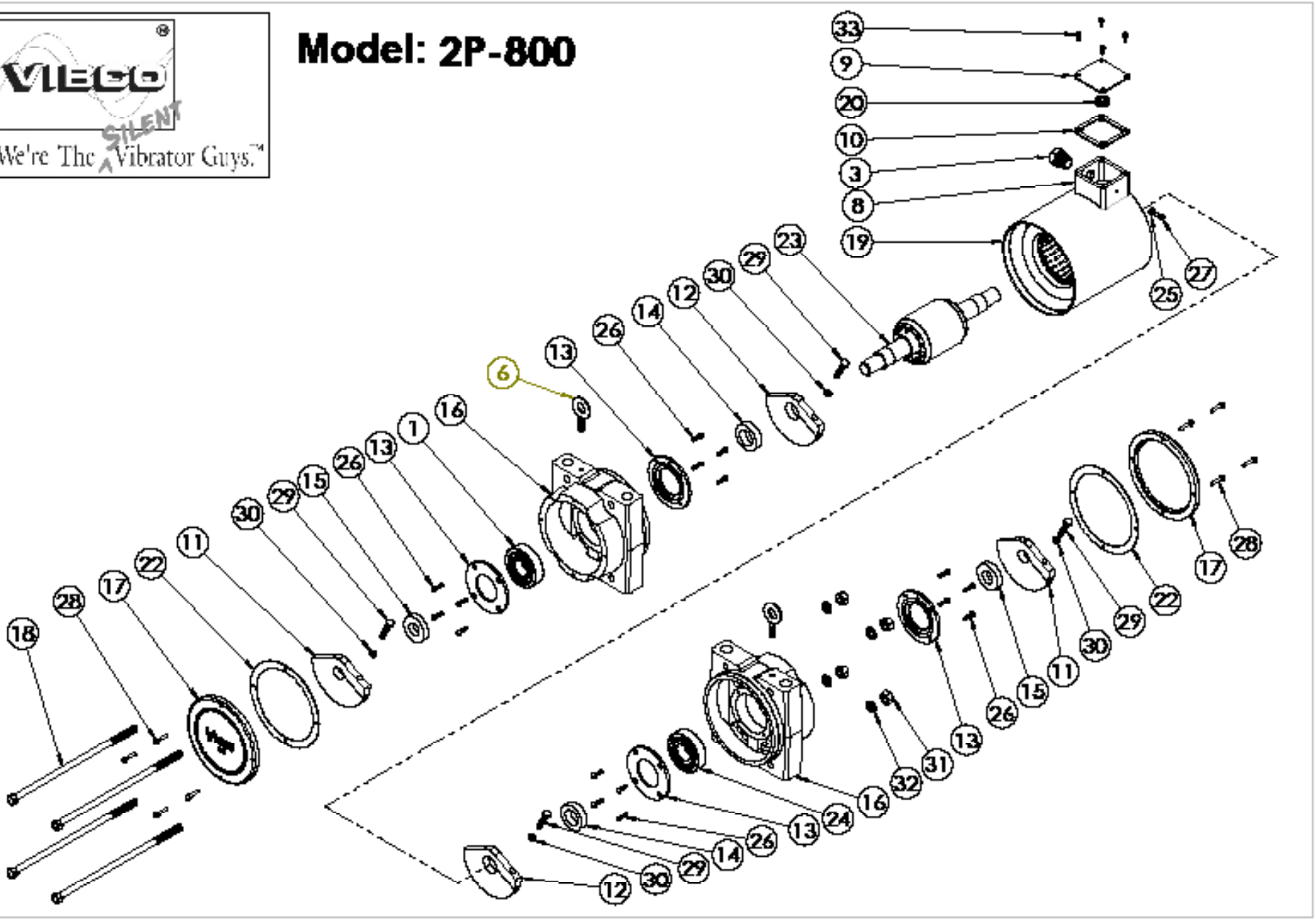
Model: 2P-450



ITEM	PART NO	DESCRIPTION	QTY

Model: 2P-800



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MODEL : 2P-800

Item No.	Part No.	Description	No Req.
1	NU306-C3	BEARING	1
2	SET-07	MOUNTING HARDWARE 5/8-11X9	1
3	CG3	CORD GRIP (CABLE CONNECTOR)	1
4	WASH-35	WASHER KIT	1
5	3M-Y	WIRE NUTS (2P-800-1)	3
6	3/8X2-1/2	#514 EYE BOLTS	2
7	42P131	16/4 SO CORD (6 FT) (2P-800-3) ONLY	1
8	48P221	CONDUIT BOX	1
9	48VM111-6	CONDUIT BOX COVER	1
10	48VM111-7	GASKET	1
11	56P206	ECCENTRIC, OUTSIDE	2
12	56P207	ECCENTIRC, INSIDE	2
13	56P250	BEARING COVER	4
14	56P279	SPACER, INSIDE	2
15	56P280	SPACER, OUTSIDE	2
16	56P281	HOUSING	2
17	56VM01-1	ENDBELL COVER AL	2
18	56VM13-1 56VM13-2	ROD (11 IN.) (2P-800-3) THRUROD (12 IN.) (2P-800-1)	1
19	56VM30-1	STATOR 2P-800-1	1
	56VM30-2	STATOR 2P-800-3	
20	2864	GROMMET	1
21	56VM31	SWITCH BOX (2P-800-1) ONLY	1
22	56VM38-4	GASKET	2
23	56VM47	ROTOR – 2P-800-3	1
	56VM49	ROTOR – 2P-800-1PH	
24	6306LLU-C3	BEARING	1
25	10-24HN	HEX NUT	1
26	10-24X1/2RHP	SCREW, ROUND HEAD MACHINE, W/ PAT	16
27	10-24X1/2SEMS	SCREW, ROUND HEAD MACHINE,W/LW&PA	1
28	10-24X1SEMS	SCREW, ROUND HEAD MACHINE,W/LW&PA	8
29	5/16-18X1-1/2HH	SCREW, HEX HEAD CAP GRADE 5	4
30	5/16LW	HEAVY LOCKWASHERS	4
31	7/16-20HN	AUTOMOTIVE HEX NUT	8
32	7/16LW	LOCKWASHER	8
33	8-32X1/2SEMS	SCREW, RD HD MACHINE W/LW & PATC	4

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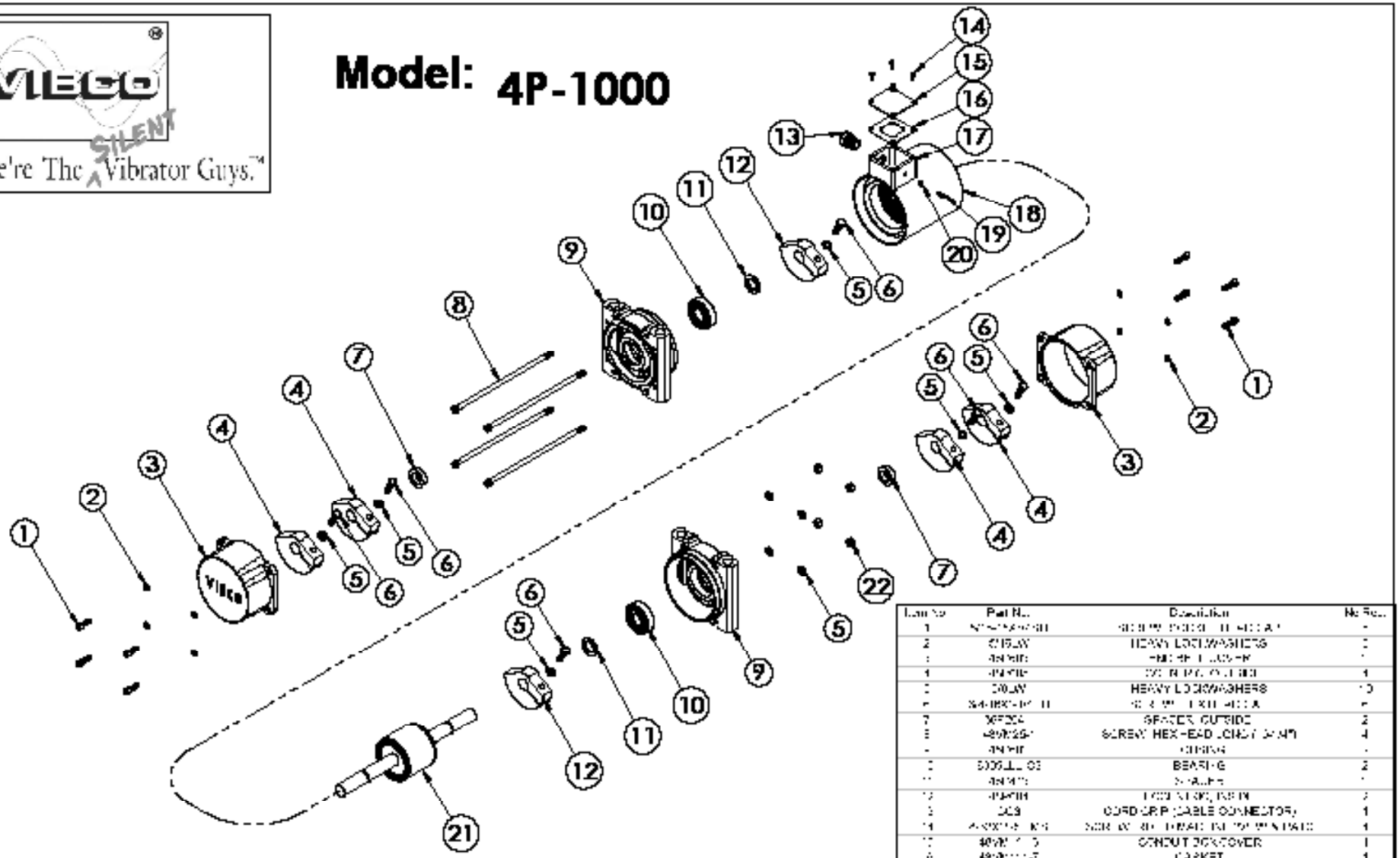
Model: 4P-1000



Item No	Part No.	Description	No Req.
1	[illegible]	[illegible]	-
2	6015JW	HEAVY LOCKWASHERS	2
3	4P4018	[illegible]	-
4	4P4019	[illegible]	1
5	200JW	HEAVY LOCKWASHERS	10
6	5/8-18X1-1/2" H	[illegible]	6
7	36P204	SPACER, OUTSIDE	2
8	4P8024	SCREW, HEX-HEAD, CINCH (4-4P)	4
-	4P4018	[illegible]	-
10	5009LL-03	BEARING	2
11	4P4017	[illegible]	1
12	4P4018	[illegible]	2
13	3429	CORD GRIP (CABLE CONNECTOR)	1
14	[illegible]	[illegible]	1
15	4P4020	CONDUIT BOX COVER	1
16	4P4021	GASKET	1
17	4P4022	[illegible]	1
18	4P4023	STATOR 4P700 [illegible]	1
	4P4023HDS	STATOR [illegible]	1
19	10-24X1/2SEMS	SCREW, ROUND HEAD MACHINE W/LOCK & FL	1
20	10-24-N	HEX NUT	1
21	4P4024	[illegible]	1
	4P4025	ROTOR 4P 1000	
22	5/8-11-N	HEX NUT	4

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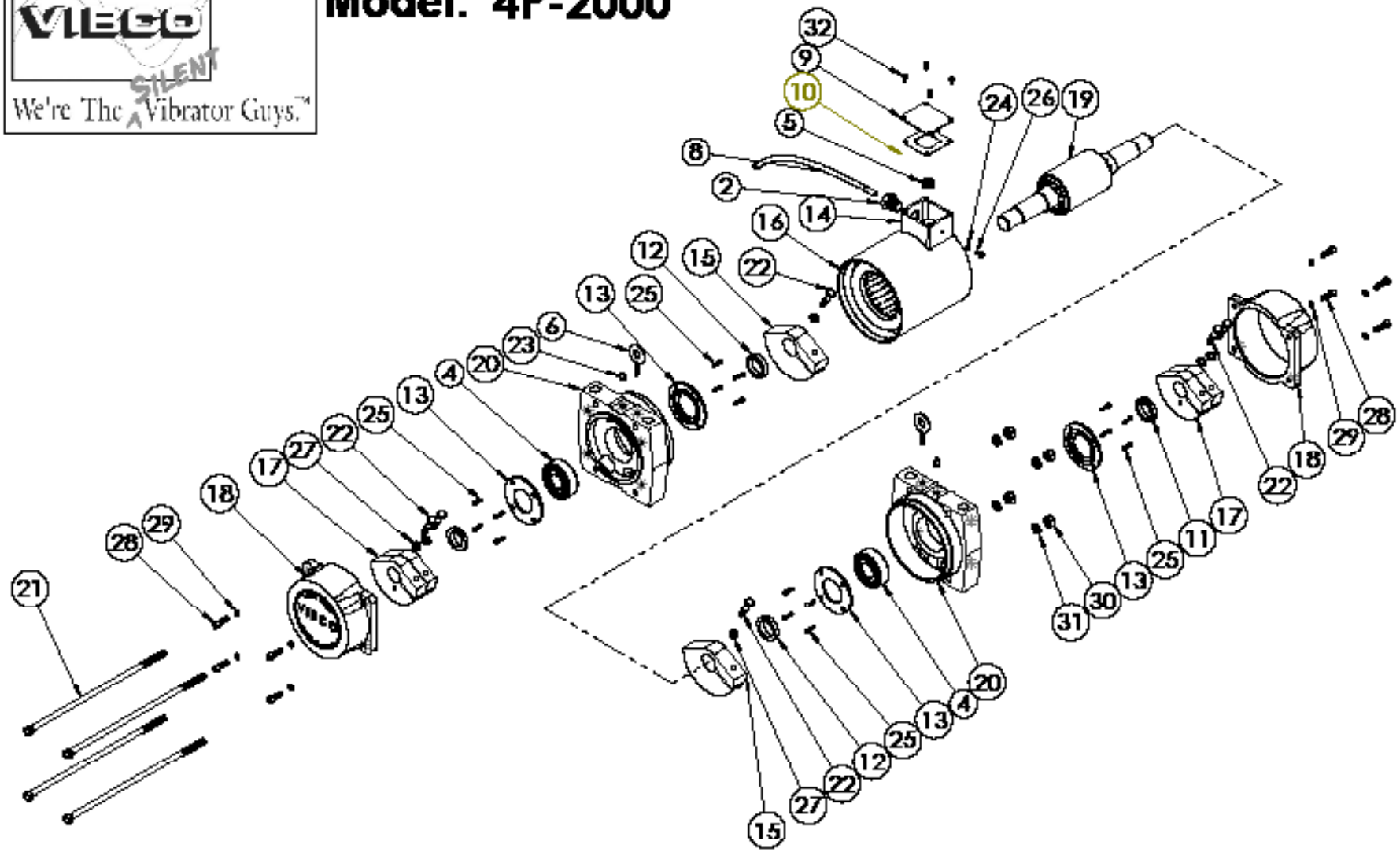
Model: 4P-2000



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MODEL : 4P-2000

tem No.	Par. No.	Description	No. Req.
1	SET 07	MOUNTING HARDWARE 5/8 " 1X9	1
2	CG3	CORD GRIP (CABLE CONNECTOR)	1
3	WASH-37	WASHER KIT	1
4	22207-C4	BEARING	2
5	2864	GROMMET	1
6	3/8X2-1/2	#5 " 4 EYE BOL"	2
7	3M Y	W RE NUT	6
8	42P131	16/4 S0 CORD (6 FT)	1
9	48VM111-3	CONDUIT BOX COVER	1
10	48VM111-4	CONDUIT BOX GASKET	1
11	56P248-1	SPACER, OUTSIDE	2
12	56P248-2	SPACI R, INSIDI	2
13	56P250	BI A RING COVI R	4
14	56P268	CONDUIT BOX	1
15	56P405	ECCENTRIC, INSIDE	2
16	56P408-4	STA TOR 4P-2 0DI-3-48 V	1
	56DAM1400-2	STATOR 4P1400/2000-575V	
	56DAM1400-1	STATOR 4P1400/2000	
17	56P416	ECCENTRIC, OUTS DE	4
18	56P417	ENDBELL COVER	2
19	56P419-2	ROTOR (3 PH.)	1
20	56P421	HOJSING	2
21	56VM13-45	SCREW, HEX HEAD MACHINE (14")	4
	56VM13-4	SCREW, HEX HEAD MACHINE (13-1/8") FOR	
		4P-2000-3-575V / 4P-2000	
22	3/8-16X1-3/4HH	SCREW, HEX HEAD, GRADE 5	6
	3/8-16X1-1/2HH	SCREW, HEX HEAD CAP	
23	1/8GF	GREASE FITTING	2

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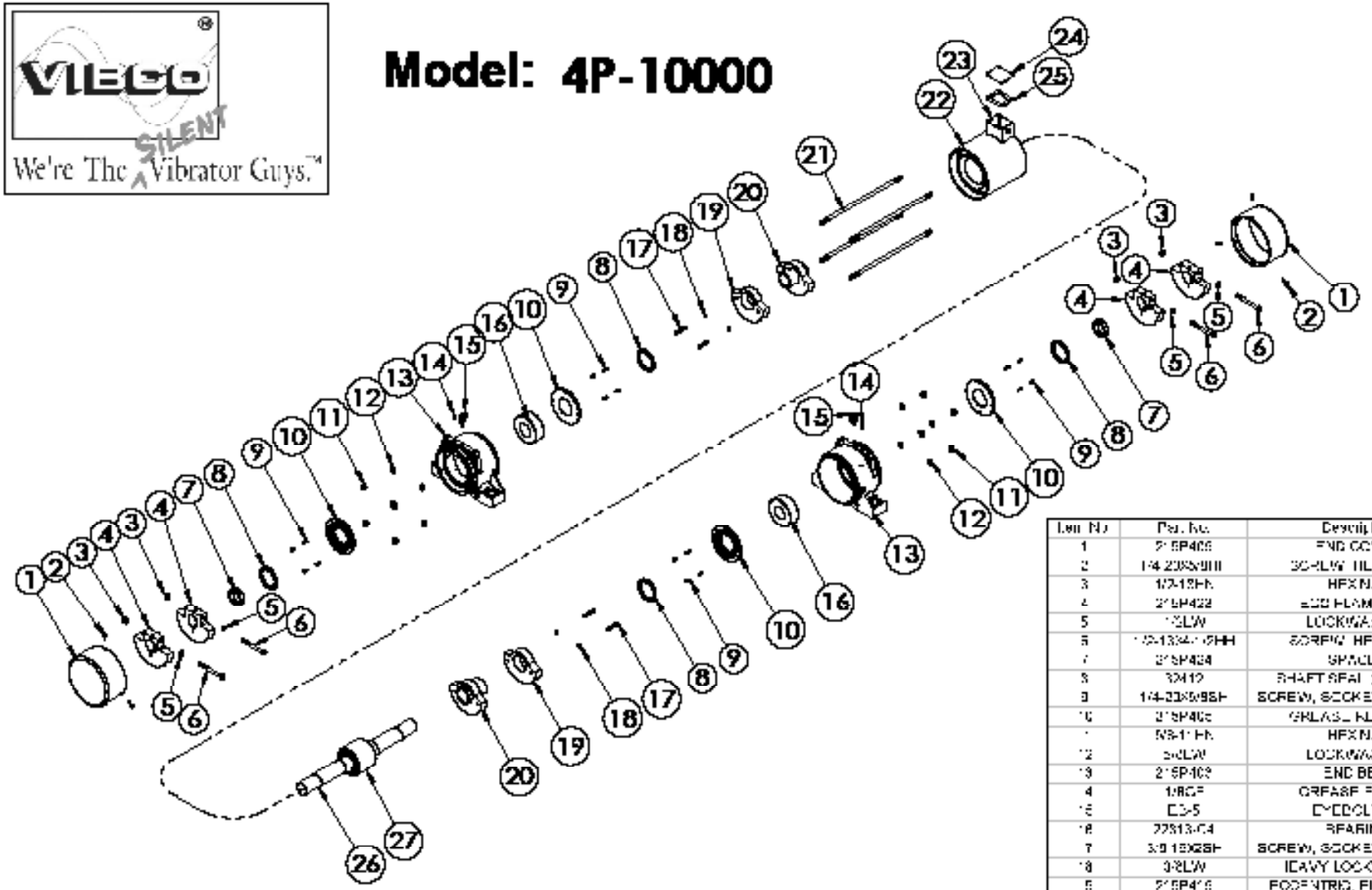
Model: 4P-10000



Item No	Part No	Description	No Req.
1	2"SP405	END COVER	2
2	1/4-20X5/8HH	SCREW, HEXHEAD	8
3	1/2-13HN	HEX NUT	4
4	2"SP422	4-20 FLANGE BOLT	4
5	1/2LW	LOCKWASHER	4
6	1/2-13X4-1/2HH	SCREW, HEXHEAD	4
7	2"SP424	SPACER	8
8	32412	SHAFT SEAL (VD 6000)	4
9	1/4-20X5/8SH	SCREW, SOCKET HEAD CAP	16
10	2"SP406	GREASE RETAINER	4
11	5/8-11HN	HEX NUT	8
12	5/8LW	LOCKWASHER	8
13	2"SP409	END BELL	2
14	1/8GF	GREASE FITTING	2
15	EB-5	EYEBOLT 5/8	2
16	22313-C4	BEARING	2
17	5/8-11X2SH	SCREW, SOCKET HEAD CAP	4
18	5/8LW	HEAVY LOCKWASHER	4
19	2"SP419	FOOTPRINT, FLATTENED	2
20	2"SP407	LOCKNUT, INSULATED	2
21	2"SP417	THROUGH ROD	4
22	2"SP4-10-1	STATOR - 4P-10000	1
23	2"SP419	CONDUIT BOX	1
24	2"SP420	CONDUIT BOX GASKET	1
25	2"SP421	CONDUIT BOX COVER	1
26	2"SP418-12	SHAFT	1
27	2"SP4-10-1	ROTOR 4P-10000	1

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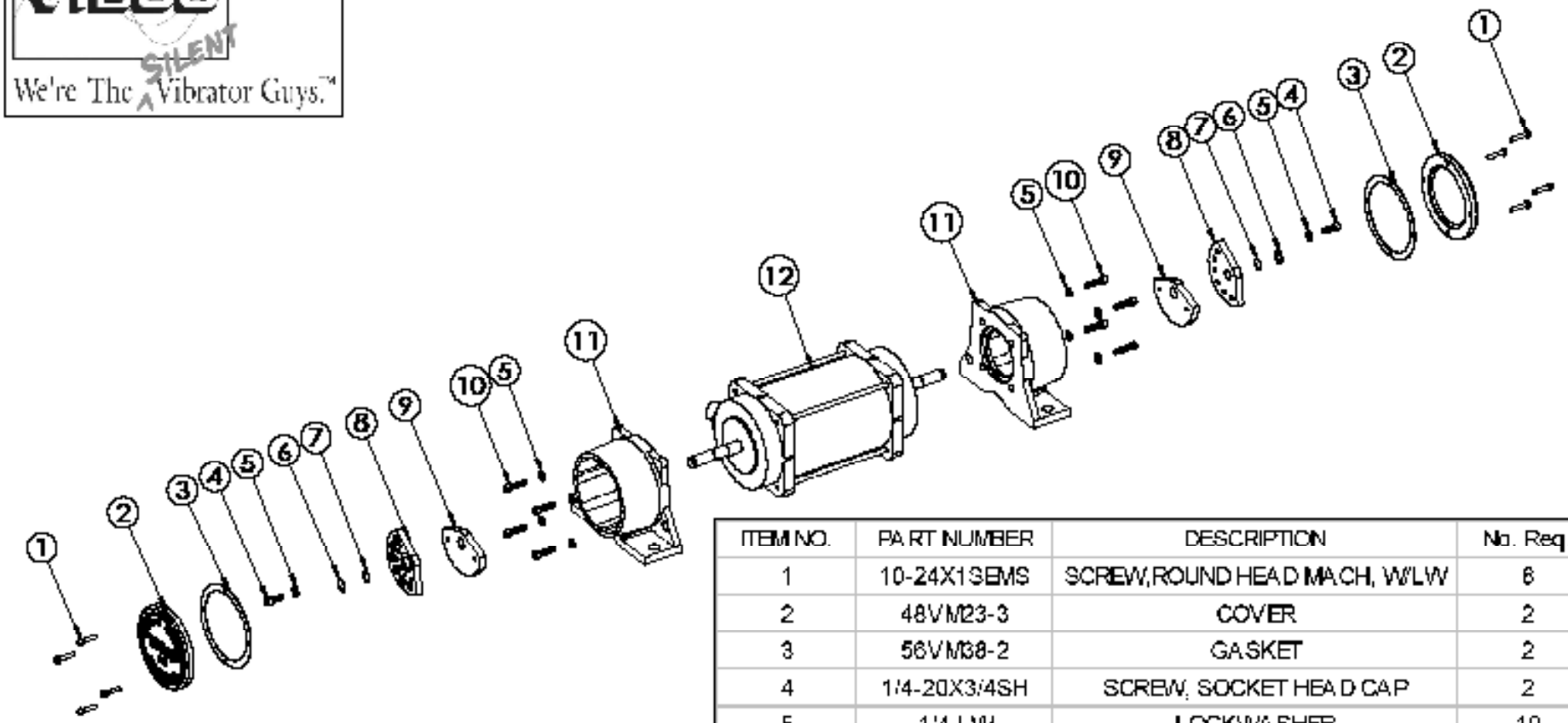
Model: 2PX-200



ITEM NO.	PART NUMBER	DESCRIPTION	Req.
1	10-24X1SEMS	SCREW,ROUND HEAD MACH, W/LW	6
2	48VM23-3	COVER	2
3	56VM38-2	GASKET	2
4	1/4-20X3/4SH	SCREW, SOCKET HEAD CAP	2
5	1/4 LW	LOCKWASHER	10
6	5100-56	SNAP RING	2
7	W0731-009	WAVE SPRING WASHER	2
8	42EP006-2	ECCENTRIC,BRASS	2
9	42EP005-2	ECCENTRIC,OUTSIDE	2
10	1/4-20X1SH	SCREW, SOCKET HEAD CAP	8
11	42EP001-2	HOUSING	2
12	42EP008-1	MOTOR	1

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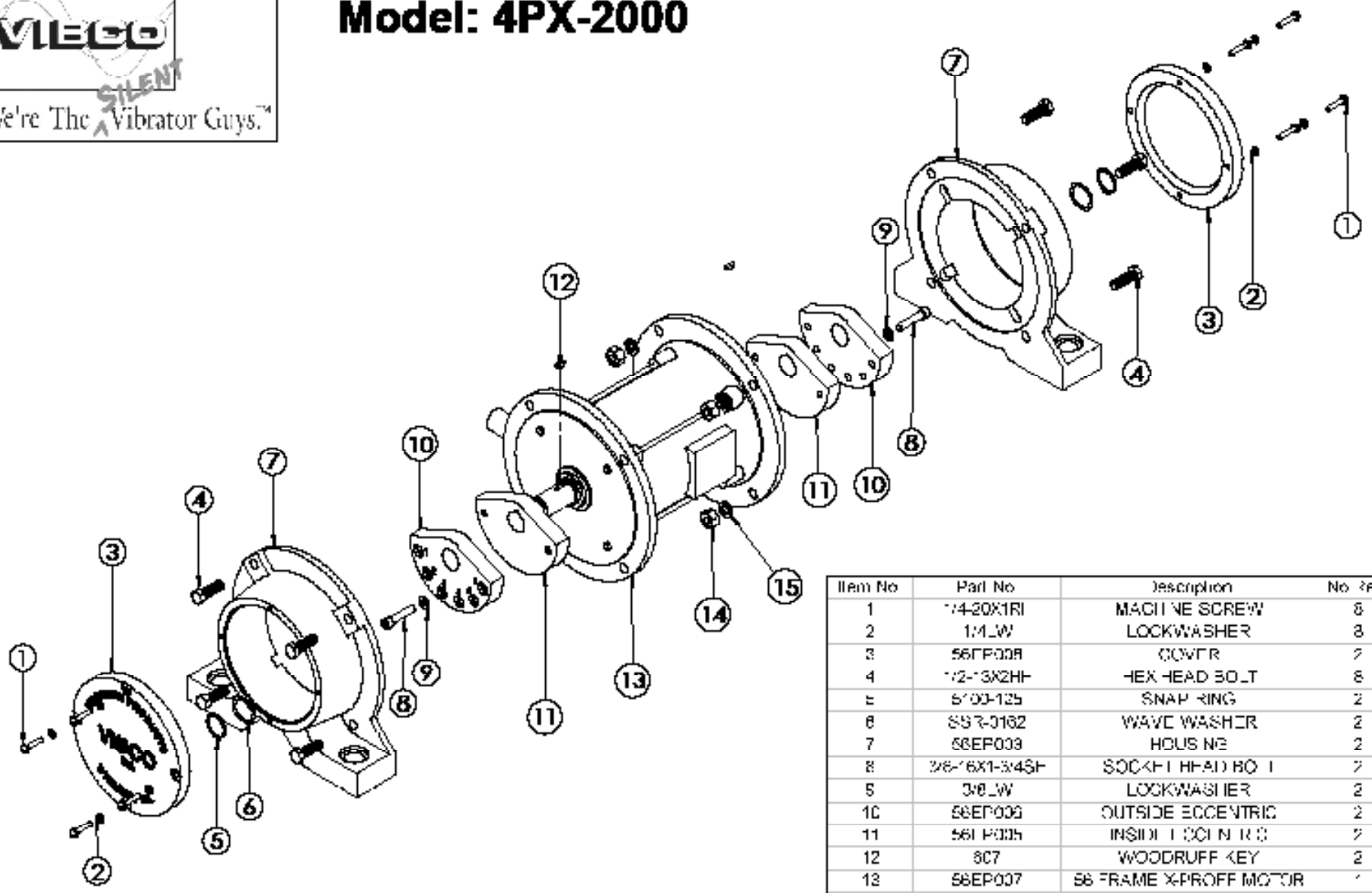
Model: 4PX-2000



Item No	Part No	Description	No Req
1	1/4-20X1RI	MACHINE SCREW	8
2	1/4_W	LOCKWASHER	8
3	56EP008	COVER	2
4	1/2-13X2HH	HEX HEAD BOLT	8
5	5100-125	SNAP RING	2
6	SSR-0162	WAVE WASHER	2
7	56EP009	HOUSING	2
8	3/8-16X1-3/4SH	SOCKET HEAD BOLT	2
9	3/8_W	LOCKWASHER	2
10	56EP006	OUTSIDE ECCENTRIC	2
11	56EP005	INSIDE ECCENTRIC	2
12	807	WOODRUFF KEY	2
13	56EP007	56 FRAME X-PROOF MOTOR	1
14	1/2-13HN	HEX NUT	8
15	1/2_W	LOCKWASHER	8

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WARRANTY AND GENERAL INFORMATION

Warranty
All warranty claims must be submitted to VIBCO for approval prior to any repairs being done. Warranty claims will be processed at VIBCO factory. Failure to do so will void any and all warranty coverage.

Errors, Shortages and Complaints
Complaints concerning goods received or errors should be made at once. Claims must be made within five days after receipt of goods. Clerical errors are subject to correction.

Returning Parts
Parts should not be returned to VIBCO without prior authorization. Call VIBCO's customer service department at 800-633-0032 (800-465-9709 in Canada) for a Return Goods Authorization (RGA) number. A return authorization will be faxed to you. Return shipping must be prepaid. Material returned may be subject to a 10% restocking fee. All returned shipments should clearly display your name, address and original invoice number on packing slip supplied by VIBCO to ensure proper credit.

Orders for equipment built to specifications which vary from VIBCO's standard units are not returnable.

Responsibility
VIBCO cannot be responsible for delays due to strikes, accidents, negligence of carriers or other causes beyond our control.

Freight Claims
Should you receive a shipment from VIBCO which was damaged in transit, file your claim with the carrier immediately. All parts sold by VIBCO are on the basis of F.O.B. Wyoming, Rhode Island.

Product Changes
VIBCO reserves the right to make changes in pattern, design or materials when deemed necessary, without prior notice or obligation to make corresponding changes in previous models.

Price Changes
Prices are subject to change without notice.

Ordering Spare Parts
Parts can be ordered through authorized distributors or directly from VIBCO. The following data should be provided when ordering:

From vibrator:	Model of unit.
From spare parts list:	Reference number, part number, description and quantity required.
Shipping instructions:	Specify shipping point and method of shipping.

Corporate HQ and Factory

www.vibco.com

SPR-SVC3